METEOR-Berichte

Eastern Mediterranean Sea – Process Study

Cruise No. M197

30.12.2023–06.02.2024 Limassol (Republic of Cyprus) – Catania (Italy) EMS-PS



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2024

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1 Cruise Summary

1.1 Summary in English

The research cruise M197 with the RV METEOR sailed January 6th 2024 to February 6th 2024 from Limassol (Republic of Cyprus) to Catania (Italy), with a focus on investigating the seawater and sediment biogeochemistry in the Eastern Mediterranean Sea. The two specific foci of the research cruise were to (i) investigate the physical, chemical and biological factors regulating the productivity and sinking carbon flux in this region, and (ii) investigate natural and human induced changes in the region over the last few thousand years. On the research cruise, 30 stations were occupied. Seawaters were collected from the surface to the seafloor to measure chemical properties of the seawater, including major and trace nutrients, the carbonate system, microplastics, and the microbial communities inhabiting the water column. Experiments were conducted to assess rates of primary production and nitrogen fixation, and the nutrients regulating phytoplankton growth. Sinking carbon fluxes were determined using the thorium-234 approach. The types and abundance of zooplankton were determined via various nets and two camera systems. The deposition flux and chemistry of aerosols was also assessed. Sediment cores were collected to determine nutrient fluxes into the overlying water column as well as investigate past environmental conditions. Collectively our research will provide an important advance in the network of factors that regulate the chemistry and biology of this system and inform ocean biogeochemical models of this region to make more realistic predictions of climate change induced impacts.

1.2 Zusammenfassung

Die Forschungsfahrt M197 an Bord von RV METEOR führte vom 6. Januar 2024 bis zum 6. Februar 2024 von Limassol (Republik Zypern) nach Catania (Italien) und konzentrierte sich auf die Untersuchung der Biogeochemie des Meerwassers und der Sedimente im östlichen Mittelmeer. Die beiden Schwerpunkte der Forschungsfahrt waren (i) die Untersuchung der physikalischen, chemischen und biologischen Faktoren, die die Produktivität und den sinkenden Kohlenstofffluss in dieser Region regulieren, und (ii) die Untersuchung der natürlichen und vom Menschen verursachten Veränderungen in der Region während der letzten paar tausend Jahre. Auf der Forschungsfahrt wurden 30 Stationen besetzt. Das Meerwasser wurde von der Oberfläche bis zum Meeresboden gesammelt, um die chemischen Eigenschaften des Meerwassers zu messen, einschließlich der Haupt- und Spurennährstoffe, des Karbonatsystems, des Mikroplastiks und der mikrobiellen Gemeinschaften in der Wassersäule. Es wurden Experimente durchgeführt, um die Raten der Primärproduktion und der Stickstofffixierung sowie die Nährstoffe, die das Wachstum des Phytoplanktons regulieren, zu bewerten. Die sinkenden Kohlenstoffflüsse wurden mit Hilfe des Thorium-234-Verfahrens bestimmt. Die Arten und die Abundanz des Zooplanktons wurden mit verschiedenen Netzen und zwei Kamerasystemen bestimmt. Der Depositionsfluss und die Chemie der Aerosole wurden ebenfalls untersucht. Es wurden Sedimentkerne entnommen, um die Nährstoffflüsse in die darüber liegende Wassersäule zu bestimmen und die Umweltbedingungen der Vergangenheit zu untersuchen. Insgesamt werden unsere Forschungsarbeiten einen wichtigen Beitrag zum Netzwerk der Faktoren leisten, die die Chemie und Biologie dieses Systems regulieren, und die biogeochemischen Ozeanmodelle dieser Region informieren, um realistischere Vorhersagen über die Auswirkungen des Klimawandels zu machen.

2 Participants

2.1 Principal Investigators

Name	Institution
Browning, Thomas J., Dr.	GEOMAR
Achterberg, Eric P., Prof. Dr.	GEOMAR
Steiner, Zvi, Dr.	GEOMAR

2.2 Scientific Party

Name	Discipline	Institution
Browning, Thomas John, Dr.	M. Biogeochem/Chief Sci.	GEOMAR
Achterberg, Eric P., Prof. Dr.	M. Biogeochem/Co-Chief S.	GEOMAR
Mutzberg, André	Marine Biogeochemistry	GEOMAR
Liadova, Margarita, Dr.	Marine Biogeochemistry	GEOMAR
Jasiński, Dominik	Marine Biogeochemistry	GEOMAR
Nicolas, Angèle	Marine Biogeochemistry	GEOMAR
Li, Jiashun	Marine Biogeochemistry	GEOMAR/Xiamen U.
Han, Yuye	Marine Biogeochemistry	GEOMAR/Xiamen U.
Melzer, Hannah	Physical Oceanography	GEOMAR
Damke, Paula Elise	Physical Oceanography	GEOMAR
Blanke, Jana Francesca	Marine Biogeochemistry	GEOMAR
Ruan, Yaqing	Marine Biogeochemistry	GEOMAR
Eckmann, Charlotte A., Dr.	Marine Biogeochemistry	MBL
Ivaldi, Julian	Marine Biogeochemistry	GEOMAR
Qiu, Li	Marine Biogeochemistry	GEOMAR
Hansen, Nis	Marine Ecology	GEOMAR
Steiner, Zvi, Dr.	Marine Biogeochemistry	GEOMAR
Berman-Frank, Ilana, Prof. Dr.	Marine Biogeochemistry	Univ. Haifa
Reich, Tom	Marine Biogeochemistry	Univ. Haifa
Blachinsky, Alon	Marine Biogeochemistry	Univ. Haifa
Gilboa, Merav	Marine Ecology	IOLR
Guy-Haim, Tamar, Dr.	Marine Ecology	IOLR
Bett, Winnie Chelang'at	Sedimentology	U. Haifa/GEOMAR
Bialik, Or Mordechay, Dr.	Sedimentology/Hydroaccustics	U. Haifa
Wilckens, C. Henriette, Dr.	Sedimentology/Hydroaccustics	U. Haifa/GEOMAR
Herut, Barak, Prof. Dr.	Marine Biogeochemistry	IOLR
Ankri, Benjamin	Marine Biogeochemistry	IOLR
Cai, Leda Liyue, Dr.	Marine Biogeochemistry	CMMI
Stelzner, Martin	Meteorology	DWD
Suter, Patrick	Meteorology	DWD

2.3	Participating Institutions
GEOMAR	Helmholtz-Zentrum für Ozeanforschung Kiel
U. Haifa	University of Haifa
IOLR	Institute for Oceanographic and Limnology Research
Xiamen U.	Xiamen University
CMMI	Cyprus Marine and Maritime Institute
MBL	Marine Biological Laboratory

3 Research Program

3.1 Description of the Work Area

Hydrography- The Mediterranean Sea is a semi-enclosed marginal basin that is separated into two parts by the Straits of Sicily (with a saddle depth of 430 m): Eastern and Western Mediterranean Seas. The Western Mediterranean is in direct contact with the North Atlantic at the Strait of Gibraltar which has a sill depth of 284 m. Here, North Atlantic waters flow into the Mediterranean as surface waters, and Mediterranean deep waters form a return flow. The Mediterranean is a 'negative' basin with respect to water balance with evaporation exceeding precipitation and run-off. There is also a net cooling within the Mediterranean and the outflow is hence denser (cooler and saltier) than the inflow. As a consequence, the Mediterranean is well ventilated to the bottom. The Eastern Mediterranean has complex circulation patterns that evolve at several different spatio-temporal scales, with the various sub-basins (Levantine Sea, Aegean Sea, Ionian Sea, and Adriatic Sea) dynamically interacting and determining the general hydrology of the overall basin. The circulations in the Adriatic and Aegean Seas are cyclonic, but in the Levantine Basin the situation is more complex with cyclonic sub-basin scale gyres north of the mid-Mediterranean jet and anticyclonic gyres of Mersa-Matruh north of Libya and Shikromona close to Israel to the south. The mean horizontal circulation in the Eastern Mediterranean at intermediate and deep levels is cyclonic, similar to the surface circulation. In the vicinity of the cyclonic Rhodes Gyre, Levantine Intermediate Water (LIW) is formed which spreads cyclonically at mid-depth (200-600 m) and is the source of deep water in the eastern as well as Western Mediterranean which ultimately forms the deep-water outflow at Gibraltar. The deep-water formation areas in the Western Mediterranean can be found in the Gulf of Lions, but also in the Eastern Mediterranean in the Adriatic and Aegean Seas (Eastern Mediterranean Deep Water (EMDW)). The other water masses in the Eastern Mediterranean include warm and saline Levantine Surface Water (LSW) which is formed in the Levantine Basin in summer, and the low salinity Atlantic Water (AW) in the subsurface which enters the Eastern Mediterranean from the west. Salinities over 39.1 can be found in the surface waters of the Eastern Mediterranean. Even at 4000 m depth, bottom water temperatures are above 12.5°C with clear evidence of warming (see below). Deep water oxygen levels exceed 200 µmol/kg.

3.2 Aims of the Cruise

The overarching aim the EMS-PS programme is to use the rapidly changing Eastern Mediterranean Sea (EMS) as a natural laboratory to gain mechanistic understanding of biogeochemical and ecosystem transitions of a future (sub-)tropical ocean affected by global warming and other anthropogenic pressures. The M197 cruise on RV METEOR had the following objectives: (i) characterizing nutrient biogeochemistry and phytoplankton nutrient limitation of seawaters in the Eastern Mediterranean Sea, (ii) documenting in detail the microbial communities that inhabit these waters from the surface ocean to sediments, (iii) assessing mechanistic connections between nutrient biogeochemistry, surface ocean productivity, deeper water metabolism, and shelf sediments in the cycling of carbon and major nutrients, (iv) using the sedimentary record to assess past environmental change in the EMS.

Our observations on the M197 research cruise will be used alongside existing autonomous platforms in the EMS and satellite observations to document spatial/temporal change.

3.3 Agenda of the Cruise

On the research cruise, 30 stations were occupied where a programme of deployments were undertaken. Seawaters were collected from the surface to the seafloor to measure chemical properties of the seawater, including major and trace nutrients, major elements, the carbonate system, microplastics, and the microbial communities inhabiting the water column. Experiments were conducted to assess rates of primary production and nitrogen fixation, and the nutrients regulating phytoplankton growth. Sinking carbon fluxes were determined using the thorium-234 approach. The types and abundance of zooplankton were determined via various nets and two camera systems. The deposition flux and chemistry of aerosols was also assessed. Sediment cores were collected to determine nutrient fluxes into the overlying water column as well as investigate past environmental conditions. Collectively our research will provide an important advance in the network of factors that regulate the chemistry and biology of this system and inform ocean biogeochemical models of this region to make more realistic predictions of climate change induced impacts. All deployments generally functioned successfully, except for the multicore sediment coring device where the closing mechanism initiated early on a number of deployments undertaken in stronger swell (ca. 2-2.5 m) that led to transient increased tension on the deployment wire. All research activities were carried out in the frame of the OSPAR Code of Conduct for Responsible Marine Research in the Deep Seas and High Seas of the OSPAR Maritime Area. No explosive or noise intensive measurements were conducted and all chemicals used onboard were returned to home laboratories.

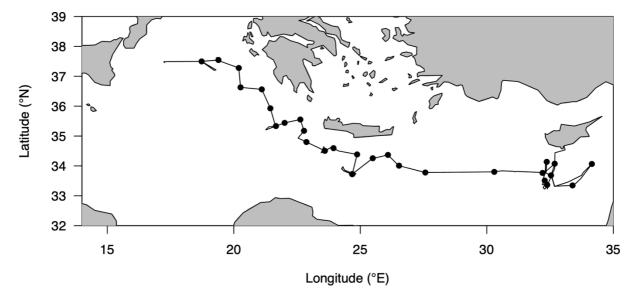


Fig. 3.1 Track chart of RV METEOR Cruise M197. Solid dots are station locations.

4 Narrative of the Cruise

The departure of research cruise M197 was delayed one week, with departure from the port of Limassol, Republic of Cyprus, on 06.01.2024 rather than intended date of 30.12.2023. This was due to unforeseeable delays in delivery of equipment containers containing essential equipment for the research activities.

We departed port at ca. 09:30 local time (07:30 UTC) on 06.01.2024 and deployed the towed water sampling device on entering the first working area. Hydroacoustic observations were collected through the night whilst in working areas. Station 1 started at 06:00 ship time (04:00 UTC) on 07.01.2024. In general, all operations were successful; however, the in-situ pumps pumped only a very small volume of seawater and the multinet zooplankton net did not close on first attempt; the latter was repeated and functioned successfully. Between 07.01.2024 until 11.01.2024 a series of four stations were conducted across the so-called 'Cyprus eddy', an anticyclonic circulating, semi-permanent oceanographic feature to the south of the Republic of Cyprus. On 08.01.2024 the reason for the misfunctioning in situ pumps was identified and from thereon they functioned well. On 09.01.2024 the towed video camera system ('PELAGIOS') lost power ca. 1 hour into the 3.5-hour deployment; the LED light usage was reduced and this solved the problem. In the night of 09.01.2024 there was some rain and lightning with a swell of 1-2 m. On 10.01.2024 the closing mechanism on the multicore sediment coring device triggered early and, as a result, no sediment core was achieved. This was identified to be due to the slightly elevated swell (ca. 2 m) that increased tension on the wire periodically and triggered the closing mechanism.

On 10.01.2024 two scientists tested positive for Covid-19 after feeling a little sick. At that point, procedures were taken to reduce the chance of the infection spreading; specifically, the infected scientists wore masks in public areas and ate meals at different times and all scientists were provided with antigen Covid-19 antigen tests to take over the next 5-day period. On 11.01.2024 and 12.01.2024 one additional scientist on each day tested positive for Covid-19. On 11.01.2024 and 12.01.2024 the swell remained elevated (ca. 2 m) and the multicore device closed prematurely. On 13.02.2024 a station was occupied over Eratosthenes Seamount. The swell had calmed to ca. 1.5-2 m and the multicore deployment was successful. On 14.01.2024, Station 8 was conducted to the north of Eratosthenes Seamount. The swell remained low (1-1.5 m) and the multicore deployment was successful. From this date onwards no more scientists were positive with Covid-19.

On 15.01.2024 we had our last station in the Republic of Cyprus EEZ and sailed west to the Greek EEZ. The passage between them was slowed by strong winds and swell (ca. 3 m) against the ship and an engine problem that needed repair; as a result, we arrived on station ca. 4 hours later than planned. Between 16.01.2024 to 04.02.2024 we progressed steadily to the northwest occupying stations each day starting between 06:00 - 08:00 local time (04:00 - 06:00 UTC) and finishing between ca. 22:00 - 03:00 local time (20:00 - 01:00 UTC).

On 19.01.2024 at ca. 17:30 ship time (15:00 UTC) the 75k Hz ADCP was replaced with the Posidonia USBL receiver for accurate underwater positioning of the multicore at the next station, which was overlying the Napoli Mud Volcano, the crater of which contains a brine

pool. Three stations were conducted around this site with a total of two multicore deployments, two deployments of the trace-metal-clean CTD, and both day and night time deployments of zooplankton nets (with night-time-only deployments at the majority of the other stations). In the evening of 20.01.2024 we had a barbecue on the working deck to mark the approximate mid-point of the research cruise. During the evening of 20.01.2024 there was a notification sent from a nearby vessel that a small boat (likely containing refugees) had been sighted, which, given the expected upcoming bad weather, might have needed assistance. The RV METEOR sailed in the direction of the small boat in the chance that assistance from might need to be delivered. Throughout the evening updates were followed and, in the end, another vessel provided assistance and the RV METEOR returned to the previous station site.

On 22.01.2024 the intended route was adjusted to move north towards Crete, in order to shelter from strong wind and waves from the north. The swell still remined 1.5 m going on 2.5-3 m at Station 17 and the multicore was deployed but closed early and was recovered to deck and a second deployment was not attempted. On the night of 22.01.2024-23.01.2024 we had extra time (due to the failed multicore) and used this to cross the cyclonic eddy to the south to acquire additional hydroacoustic data before occupying Station 18 at the site of a deep canyon around 60 km south of Crete. At 11:00 ship time (10:00 UTC) we carried out a live video call with a group of school children, describing our scientific programme and life on board a research vessel. The school children were taken on a tour through the ship from the bridge, the weather station, the ships gym and hospital, through to the working deck and the scientific laboratories. Apparently, the school group found it interesting and entertaining and hopefully inspired them a little in the subject of oceanography. Wind and waves calmed significantly throughout the day.

On 28.01.2024, the swell (1.5 - 3 m) and wind (4 - 9 Bft) increased rapidly during the day and a waterspout sighting was made at ca. 08:00 ship time (07:00 UTC). At ca. 15:00 ship time (14:00 UTC) it was decided that it was too rough for deployment of the in-situ pumps and multicore. Due to rough swell, the multicore shut prematurely at Stations 24 and 25 (29.01.2024 and 30.01.2024, respectively), whilst other deployments proceeded without problems.

On 31.01.2024 we occupied our deepest site with ca. 5100 m water depth and the station was conducted with calm sea conditions and sunny weather. A second live video call with school children was conducted; this time 30 classrooms joined with ca. 1000 school children viewing in total. Between 01.02.2024 and 04.02.2024 we conducted our final four stations of the cruise in calm sea conditions (ca. 0.5-1.5 m swell) and pleasant weather. The final station on 04.02.2024 (Station 30) only comprised of standard and trace-metal-clean CTDs to a depth of ca. 500 m in the morning and zooplankton nets in the evening. The remainder of the day was used for final sample processing and packing. On 05.02.2024 the scientific team with the help of the ship's crew packed equipment and cleaned laboratories. On 06.02.2024 we arrived in Catania (Italy) at ca. 09:00 local time where shipping containers were unloaded from the vessel and frozen samples were handed over to a courier company. Two scientists left the vessel on the afternoon of 06.02.2024 and the remainder on the morning of 07.02.2024.

5 Preliminary Results

5.1 Stainless-Steel CTD Surveying

(H. Melzer, P. Damke)

To study the water column, the RV METEOR's stainless-steel rosette (SS-CTD) was deployed during clean-ship conditions. The SS-CTD was equipped with a *Sea-Bird Scientific SBE 911Plus* instrument, 24 Niskin bottles, an Underwater Vision Profiler 5 DEEP device (UVP) as well as a nitrate sensor from *TriOS GmbH*. The SBE 911Plus device measured seawater temperature (2 sensors - Ser. Nr. 5283 and 5655) conductivity (2 sensors - Ser. Nr. 4058 and 3717) and pressure (Ser. Nr. 1497). Additionally, a sensor for dissolved oxygen was attached to the CTD. However, the oxygen sensor showed a strong drift and offset, therefore it was replaced after station 15 (file number 'met_197_1_042') from Ser. Nr. (2415) to (2337). The latter sensor was taken from the TM CTD. Therefore, the data from the TM CTD from the same station can be used for analyses. Further, fluorescence and turbidity were measured by an instrument from *Wet Labs* (Ser. Nr. 20353). The PAR sensor from the ship CTD could not be deployed for depths greater than 2000 m, therefore it was replaced by a sensor from GEOMAR (Ser. Nr. 70714). Note, that the PAR data is not available for the first cast.

The deck unit was operated using the setup file 'M197_hm.psa' with the config file 'M197_mit-PAR-GEOMAR.xmlcon'. The file name convention was 'met_197_1_nnn'. The data were processed to remove spikes and then a moving mean smoothing was applied, binning the data to 10 m segments. The data was processed and plotted using the program *MATLAB*, and the raw data was converted into an ASCII format using *Sea-Bird Scientific's SBE Data Processing* program. In total 89 CTD profiles were recorded. The first deployment took place on January 07th 2024 and the last CTD took place on February 04th 2024.

5.2 Trace Metal CTD Surveying

(D. Jasinski, A. Nicolas, H. Melzer, P. Damke, Y. Ruan)

In addition to the RV METEOR's stainless-steel rosette, a second CTD for trace metal sampling (TM CTD) was deployed also during clean-ship conditions. The TM CTD is made with a titanium frame and was operated via a separate containerized winch equipped with a Kevlar cable. The TM-CTD was equipped with a Sea-Bird Scientific SBE 911Plus instrument and 24 Niskin bottles. The SBE 911Plus device measured seawater temperature (2 sensors -Ser. Nr. 5562 and 5661) conductivity (2 sensors – Ser. Nr. 4064 and 4084) and pressure (Ser. Nr. 1086). Additionally, two sensors for dissolved oxygen were attached to the CTD. However, one of the sensors was broken and got replaced after the first cast Ser. Nr. (1718) to Ser. Nr. (2336). The secondary sensor (Ser. Nr. 2237) was working fine, nevertheless, due to a malfunction of the oxygen sensor on the SS CTD it got taken off at station 15 and attached to the SS CTD (after filenumber 'met 197 1 tm 015'). Furthermore, it included a transmissometer from WET Labs (Ser. Nr. CST-1520DR). The deck unit was operated using the setup file 'Seasave TM METEOR 197 hm.psa' with the config file 'MET_197_1_tm_hm.xmlcon.'

The data were processed to remove spikes and then a moving mean smoothing was applied, binning the data to 10 m segments. The data was processed and plotted using the program *MATLAB*, and the raw data was converted into an ASCII format using *Sea-Bird Scientific's SBE Data Processing* program. In total 29 CTD profiles were recorded. The first deployment took place on January 07th 2024 and the last CTD took place on February 04th 2024.

5.3 Underway Sampling from a Towed Water Sampling Device

(A. Nicolas, B. Ankri, Y. Han, Y. Ruan, A. Blachinsky, J. Ivaldi)

In order to have a better overview of the surface biogeochemical processes, we used a towed, trace-metal clean sampling device (so-called tow fish) used for pumping (teflon double diaphragm pump, Dellmeco) surface water (ca. 3-5 m depth) via acid-washed tubing. Samples were collected in a TM clean bench (plastic sheeting enclosing a laminar flow hood). Sampling took place in between stations, when possible, with a variable time resolution.

All samples were collected using a filter capsule (AcroPak 500 Supor Membrane 0.8/0.2 μ m). **Dissolved TM:** Filtered water samples were collected into acid clean 125 mL LDPE bottles (rinsed 3 times with sample before collection). Samples were acidified with 175 μ L *Optima* grade HCl (see section: Trace metals sampling and analysis). **Major elements**: Filtered water samples were collected into acid clean 5 mL plastic vials (rinsed 3 times with sample before collection). (See: Major elements sampling and analysis section). **Inorganic/organic macronutrients:** Samples were collected into duplicate acid clean plastic 15 mL (inorganic) or single 50 mL (organic) vials (rinsed 3 times with sample before collection). For inorganic nutrients, one sample was collected for nano- and one for micromolar concentrations of inorganic macronutrients, the latter measured on board by A. Mutzberg (See: Macronutrients section). Nanomolar nutrient samples were immediately frozen at –20 °C and will be analyzed in GEOMAR.

5.4 Salinity

(M. Liadova, P. Damke)

Salinity values of the different CTD casts were measured by salinity sensors attached onto the rosette frames. There were two different CTD types: The stainless steel CTD (SS CTD) and the trace metal clean CTD (TM CTD). 159 discrete salinity samples were collected into 0.33 mL glass bottles from different depths of the water column and the CTD casts to calibrate these sensors. For Station 1, 4 samples were taken in TM CTD cast. For Stations 2 and 3, 6 samples were taken in TM CTD cast. For the SS CTD, 3 samples were taken in the deep cast and 1 in the shallow cast. From Stations 4, 5 or 6 samples per station were taken following the order: (1) 3 samples from TM CTD, 1 or 2 samples from the deep cast of SS CTD, and 1 sample from the shallow cast of SS CTD, or (2) 2 samples from TM CTD, 2 sample from deep SS CTD, and 1 sample from shallow SS CTD. In total, three depths were covered per station: the deepest point, a shallow depth at around 80-40 m depth, and a mid-water column depth. Salinity values will be analyzed after the cruise at GEOMAR. See also Sections 12.01–12.02.

In addition to the salinity samples from the CTD casts, a number of samples from the ship's dual thermosalinograph (TSG) were taken at the outlet MMC2. Most of the samples were taken

underway, some of them on station. The samples will be analysed after the cruise at GEOMAR. See Section 12.03.

5.5 Oxygen

(M. Liadova)

Oxygen sensors attached to the CTD rosette frames measured oxygen concentrations for the different CTD casts. In total 337 oxygen samples were collected from different depths of the water column to calibrate these sensors. There were two different CTD types: The stainless steel CTD (SS CTD) and the trace metal clean CTD (TM CTD). For SS CTD, there were two casts per station: deep and shallow. For the SS CTD, 5 samples were collected in the deep casts, and 1 sample in the shallow cast. For the TM CTD, 6 samples were collected per cast. For Station 24, 7 samples were collected from deep cast of SS CTD and from TM CTD. The samples were collected bubble free and as soon as possible after the CTD was on deck. 6 different depths were chosen the same pattern: The highest and lowest depths, the oxygen minimum zone and depths that showed no or the weakest possible gradient. For the TM CTD, the samples were taken inside the clean lab and fixed with the fixating reagents outside of the trace-metal-clean lab to reduce the chances of contamination of other parameters being sampled. Oxygen concentration samples were analysed during the cruise using the Winkler (1888) Method. Two TITRONIC universal Piston Burette machines were used: one for sodium thiosulfate titration and one for iodate standardization. 17 oxygen samples were taken to calibrate EXO oxygen sensors. 4 oxygen samples were taken from the sediment water after the incubation experiments. See Sections 12.02-12.07.

5.6 Macronutrients

(A. Mutzberg)

The distribution of nutrients in seawater is a key for understanding the biogeochemical processes, and their signatures allow the differentiation between the various water masses in the ocean. In addition, they are used to identify leaking bottles due to their well-defined and oceanographically consistent distributions. Every Niskin bottle fired from every single cast depth was sampled for nutrient analysis onboard. Seawater was collected in 15 mL polypropylene sample vials. Containers and caps were rinsed three times with the water of the sample before the actual sampling. Samples were placed immediately in the fridge after collection (4°C in darkness) in case they could not be immediately analyzed.

Analysis of macro nutrients was undertaken on board by segmented flow injection analysis using a QUAATRO39 (Seal Analytical) auto-analyzer including a XY2-autosampler unit. Nano molar nutrient samples were frozen at -20 °C and will be shipped back to GEOMAR for analysis. The system set-up included 4 channels for nitrate + nitrite (TON), silicate, nitrite, and phosphate. The analytical methods followed during the cruise correspond to those described by QuAAtro Applications: Method No. Q-068-05 Rev. 11 for TON, Q-066-05 Rev. 5 for Silicate, Q-070-05 Rev. 6 for Nitrite and Q-064-05 Rev. 8 for Phosphate. A total of ~2430 macro molar nutrient samples collected for all Ti-CTD-casts, stainless steel-deep and shallow-CTD-casts were taken and subsequently measured on-board. Around 1000 nutrient samples were additionally taken from the stainless steel CTD casts to be shipped back at -20°C for Nanomolar nutrient measurements at GEOMAR on a modified nano set up QUAATRO39 (Seal Analytical) auto-analyzer. Additionally, ~370 samples for dissolved organic nitrogen and phosphorus (DON / DOP) collected by all Meteor stainless steel-CTD-casts and were also measured after digestion on board. The digestion was done by using 40 mL of seawater sample in a 50 mL Duran glass bottle by adding Oxidizing decomposition reagent, Oxisolv ® Merck. The digestion happened in an overpressure cooker at 121 °C for 90 minutes. Ca. 50 Tow fish samples from the near surface, with expected concentration values in lower nanomolar concentrations for Nitrate + Nitrite and Phosphate, were stored at -20°C to be analyzed at GEOMAR with the macro set up and modified nano set up QUAATRO39 (Seal Analytical) auto-analyzer. Ca. 380 Nutrient samples were taken from the Multicorer casts and were analyzed on board with the macro set up QUAATRO39 (Seal Analytical) auto-analyzer. Ca. 250 Nutrient samples were taken by the Aerosol-collector to be analyzed on board with the macro set up QUAATRO39 (Seal Analytical) auto-analyzer. Finally, 4 rainwater nutrient samples were taken to be analyzed on board with the macro set up QUAATRO39 (Seal Analytical) auto-analyzer.

Certified Reference Material for Nutrients in Seawater (RMNS) was used in every run, in order to I) ensure repeatability and reproducibility between analytical runs and to II) validate the accuracy of concentrations measured. Nutrient analysis was validated with KANSO CRM, Lot-No. CL for macromolar nutrients.

5.7 Ammonium

(E. Achterberg)

Samples (15 mL) for ammonium were taken from Niskin bottles deployed on the SS-CTD down to ca. 300 m depth. Samples were immediately frozen at -20 °C and will be analyzed upon return to GEOMAR. Analysis will be conducted on thawed samples using the OPA method: OPA reagent will be added followed by a 24 h incubation time, during which the samples will be kept in the dark at room temperature with caps tightly closed. Subsequent detection of ammonium will be performed on a Carey Eclipse fluorimeter. Calibration will be carried out using standard additions with standards prepared using low ammonium concentration deep ocean waters (> 600 m).

5.8 Helium

(E. Achterberg)

³Helium is a conservative tracer for hydrothermal vent inputs and were sampled at some selected stations. Where sampled, helium isotopes were sampled first from the Niskins of the SS-CTD. Samples were collected in a copper pipes, which were connected to the Niskin bottle via plastic tubing, with water flowing until bubbles in the tube were removed. While the water was flowing, the pipe was closed using an electrical drill and a ratchet. Helium isotopes will be analysed at the University of Bremen.

5.9 Trace Metal Sampling

(D. Jasinski, Y. Ruan and A. Nicolas)

Trace metals (TM) play a key role in marine ecosystems, as they are essential micronutrients and can also be toxic. The Eastern Mediterranean Sea is characterized by a complex water masses circulation, combined with small-scale features and is strongly impacted by anthropogenic climate change and pollutions. Measuring the distribution of trace elements in the water column will help understanding the complexes sources, sink, fluxes, transport mechanisms, natural and anthropogenic induced processes taking place in the area. To limit contamination of the samples, acid-cleaned Niskin bottles were deployed on a Titanium rosette, equipped with a CTD. Samples were collected inside the "clean lab container" over pressurized with HEPA-filtered air, acidifications and filter handling was done inside a laminar flow hood. Niskin bottles were kept in the clean lab between casts. Oxygen: Oxygen samples were collected from few Niskin bottles, always sampled first and analysed on board (See Oxygen section). Salinity: Salinity samples were collected from several Niskin bottles per cast (See Salinity section). Nutrients: Nutrients samples were collected from all Niskin bottles and analyzed on board (See Macronutrients section). THg: Unfiltered total Mercury samples were collected at every station from 12 depths, 60 mL acid cleaned glass vials were rinsed 3 times before collection (overflow). Samples were acidified with 300 µL (Optima or TM grade) HCl (final concentration 0.5%). MeHg: Unfiltered total Mercury samples were collected at every station from 12 depths, 125 mL plastic bottles were rinsed 3 times before collection (overflow). Samples were acidified with 620 µL (Optima or TM grade) HCl (final concentration 0.5%). DOM/TM: Water samples were collected in 2 L bottles (rinsed 3 times with sample before collection) from few depths, samples processed on board (cf Organic matter sampling and analysis section). Dissolved TM: Filtered water samples (using Pall Acropack filters 0.2 µm) were collected into acid cleaned (following GEOTRACES protocols) 125 mL Nalgene LDPE bottles (rinsed 3 times with sample before collection). Samples were acidified with 175 µL Optima grade HCl (Fisher Scientific). Particulate TM: 0.2 µm, 43 mm diameter PES filters were cut from larger filters using ceramic scissors and then soaked in 0.1 M HCl acid (for some time in analytical grade and then for some time in Optima grade acid). Seawater was passed through the filters whilst under pressure from filtered N₂ gas (0.5 bar). The volume of seawater filtered through each filter was measured. Acid-cleaned plastic filter holders were used on the first station and then rinsed with MQ in between samples/stations. Blank filters were collected several times during the cruise. All samples were stored at -20°C. Major elements: Filtered water samples (using Pall Acropack filters 0.2 µm) were collected into acid clean 5 mL vials. (See Major Elements section). Soluble TM: 12 filtered water samples per cast (using Pall Acropack filters 0.2 µm) were collected into acid washed (following GEOTRACES protocols) 125 mL Nalgene LDPE bottles (rinsed 3 times with sample before collection). These bottles were reused between stations - they were placed in acid bath overnight and rinsed with Milli-Q. Samples were then "ultrafiltered" with 0.02 µm filters (Anotop, 25 mm diameter) using a peristaltic pump. Filters were used for 3 different samples, flushed with 0.1M HCl, Milli-Q and then sample before collection into 30 or 60 mL acid washed (following GEOTRACES protocols) Nalgene LDPE bottles. Then acidified with 40 or 80 µL of Optima grade HCl (Fisher

Scientific). **Zn isotopes**: 1L LDPE bottles were rinsed 3 times with filtered (using Pall *Acropack* filters 0.2 μ m) seawater sample before collection. **Dissolved Nd/Pb/Sr isotopes**: "Cubitainers" of various sizes (ca. 1-10L) were rinsed and filled with filtered sample (through the 0.2 μ m PES filters used for particulate sample collection). **Particulate Nd/Pb/Sr isotopes**: The same procedure as for particulate TM.

5.10 Major Elements

(Y. Han, Z. Steiner)

Major elements are mostly conservative in seawater and have high concentrations and long residence times in the ocean. However, major dissolved cations participate in most biological and geochemical reactions and thus variability in their concentrations outside the variability determined by changes in salinity informs of a multitude of reactions and can be used to quantify key processes in the marine environment. As seawater Mg:Ca and Sr:Ca ratios are essential biogeochemical parameters, their concentrations reflect the dynamic exchange of important elements between the solid Earth, ocean water masses, the atmosphere, and processes such as biological precipitation of inorganic minerals and *post-mortem* dissolution. On this cruise, the investigated processes that may govern distribution of the cations Ca, Mg, Sr, Ba and Li are marine currents and circulation, biogenic inorganic mineral precipitation and dissolution, atmospheric inputs, and deep sedimentary sources that reach the surface as mud volcanoes and brines.

Samples were collected from all stations visited during the cruise and at all depths to quantify the distribution of major elements, identify the processes that govern variability in the distribution of the major elements and evaluate their budgets in the Eastern Mediterranean basin. The samples were filtered using 0.8/0.2 µm filter cartridge (AcroPak 500, Pall) from the trace metal CTD. Filtered underway samples were collected from the towfish system regularly. Samples were acidified with HCl (Optima grade; Fisher Scientific) and stored at room temperature. The ratios of the major dissolved cations Ca, Mg, Sr, Ba and Li to Na will be analyzed at GEOMAR using a Varian-720 ICP-OES (Inductively Coupled Plasma Optical Emission Spectroscopy) (Steiner et al., 2020).

5.11 Carbonate System

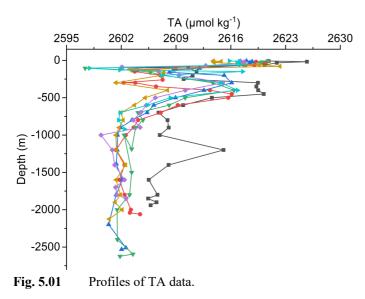
(L. Qiu)

To assess how climate change affects carbonate system in the eastern Mediterranean Sea, total alkalinity (TA), partial pressure of CO₂ (pCO₂), pH and dissolved oxygen (DO) in surface water were observed using an *in situ* TA analyzer (ISA–TA) with about 7-min sampling interval, a pCO₂ sensor (HydroC, 4H–Jena engineering GmbH, Germany) with 10 s sampling interval, a pH sensor (sunburst sensor, USA) with 15-min sampling interval and an EXO1 probe/sensor with 1 min sampling interval, respectively (Table 5.01). A suite of sensors (including ISA-TA, pCO₂, pH, EXO1) were placed in a 68 L tank on the sink of 'Geo' lab, which was continuously supplied with surface water (from 2.5 m depth) from the underway water supply during observations. The flow rate was about 30 L/min allowing for fast exchange of the entire water volume inside the tank. Although the fast water exchange, the turnover time of two minutes should be considered when processing the data.

Underway samples for dissolved inorganic carbon (DIC) and TA were collected once daily (around 30 samples) and were poisoned with mercuric chloride (HgCl₂) prior to analysis on land. Profile DIC and TA samples (around 700 samples) collected from stainless steel CTD were immediately measured using ISA-TA in the ship. Underway discrete samples for TA will be analysed following the Gran titration method (Gran 1952) using a semi–automatic potentiometric titration system (AS–ALK2, Apollo SciTech Inc., USA) (Cai, Hu et al. 2010). Discrete samples for DIC will be measured using an Apollo DIC Analyzer (Model AS–C3).

Preliminary results from profiling observations indicate that TA values are higher at the surface than at the bottom in the eastern Mediterranean Sea (Fig. 5.01).

Table 5.01		Sensor used dur	ing the M197 cruise.	
	Senso		Model & Brand	Sampling Interval
	1	pH sensor	SAMI, Sunburst sensor, USA	15 min
4	2	EXO1 (surface)	YSI, USA	1 min
	3	pCO_2 sensor	HydroC, 4H–Jena engineering GmbH, Germany	10 s
2	4	<i>in situ</i> TA analyzer	prototype	~7 min



5.12 Dissolved Organic Carbon (DOC)

(E. Achterberg)

DOC samples were taken and acidified to pH 2 in the lab. Shallow samples from ca. 300 m upward were filtered through an ashed GF/F filter. DOC samples will be analysed at GEOMAR using a Shimadzu TOC/TDN instrument.

5.13 In Situ Pump Deployments

(J. Blanke, E. Achterberg)

Sinking of particulate organic matter (POM) links CO_2 fixed through photosynthesis by phytoplankton in the surface ocean with carbon storage in the ocean interior. This pathway has been conceptualized as the biological carbon pump (BCP), and represents a key carbon sequestration mechanism. However, the bioavailability and bacterial transformation of POM, which are key determinants of BCP efficiency, remain poorly understood. Biomarkers (e.g., amino acids and amino sugars) provide powerful tools for insight into the bioavailability and transformations of POM.

Particles were collected using in-situ pumps. Two, sequentially filtered size fractions (51 and then 1 µm) were obtained by PETEX meshes at each depth, with a standard pump time of 2.5 hours. Nine pumps were used in total, including six challenger-oceanics from National Oceanography Centre Southampton (UK) using 293 mm diameter PETEX meshes and pumping 1800-3200 L, two Kiel In situ Pumps (KISP) pumps, one equipped with a 293 mm diameter PETEX mesh, the other with a 142 mm diameter size mesh and one McLane pump, equipped with 142 mm diameter size meshes. The KISP pumps were equipped with only the 1 µm mesh, while the McLane pump had both pore-sizes equipped. Both of these smaller pumps pumped around 300-500 L. In alternation, the particles on the mesh were either rinsed using filtered seawater from 1000 m depth into beakers and then divided into four parts (POC, amino acids, amino sugars) or using thorium-free underway seawater and divided into five parts (POC, POP, PIC, BSi and ²³⁴Th) with Folsom splitter for 51 µm and 1 µm, respectively. Additionally, a quarter was cut from the filter and frozen at -80°C on days thorium was sampled. At stations 4, 6, 8, 10, 12, 17, 19, 21, 23, 25, 27 and 29 nine depths between 20-1000 m were sampled, while at stations 1, 3, 5, 7, 9, 11, 13, 16, 18, 20, 22, 24, 26 and 28 nine depths between 20-700 m were sampled. The partitioned seawater for POC, POP, amino acids and amino sugars were filtered onto pre-combusted GF/F (Fisherbrand; Product number: 11750483) filters and then stored at -20°C, seawater for BSi and PIC were filtered onto 0.4 µm polycarbonate membrane filters (cytiva; Product number: 10417706) and onto QMA-filters (Whatman; Product number: 1851-025) for ²³⁴Th. At Stations 6, 8, 10, 12, 17, 19, 21, 25, 27 a quarter was cut from every filter and dried at 55 °C for Nd and Sr isotopes. These filter-cuts will be analyzed by Adi Torfsteine at the Hebrew University in Jerusalem.

Samples for POC, PN and bulk δ^{13} C and δ^{15} N determination will be fumed with concentrated hydrochloric acid (HCl) to remove inorganic carbonate followed by oven-drying at 60°C for 24 h, and analyzed using a Flash EA IsoLink CN elemental analyzer coupled with a MAT 253 plus IRMS (Thermo Fisher Scientific, Germany).

Pretreatment of AS samples will follow the method of Zhu et al. (2014). Briefly, GF/F filters or ground sediments will be hydrolyzed using 6 M HCl at 105°C for 8 h. The hydrolysates will then be neutralized with 6 M potassium hydroxide (KOH) to a pH ~6.8 and centrifuged immediately. The supernatant will be taken through solid phase extraction (SPE) cartridges to remove salts, and then eluted with methanol and dichloromethane. The eluent containing AS will be concentrated under nitrogen and then redissolved in Milli-Q water for concentration

and stable carbon isotope analysis. Individual AS concentrations will be quantified using an ion chromatograph (IC, Dionex ICS-5000+ SP) coupled with an electrochemical detector.

Concentrations of D- and L-amino acids will be hydrolyzed using 6 M hydrochloric acid and then separated as *o*-phthaldialdehyde derivatives using a Thermo Fisher Scientific U3000 ultrahigh performance liquid chromatography (UPLC) system equipped with a Poroshell 120 EC-C18 column ($4.6 \times 100 \text{ mm}$, 2.7 µm particles). Further details of amino acid hydrolysis and chromatographic separation are provided by Shen et al. (2017).

5.14 Thorium

(J. Blanke)

²³⁴Th is the daughter isotope of the ubiquitous radiogenic ²³⁸U. The resulting disequilibrium between ²³⁴Th and ²³⁸U as the surface active ²³⁴Th gets scavenged by sinking particles can be used to calculate particle fluxes such as export of POC to deeper depths, an important aspect of quantifying organic carbon export rates in open ocean waters (Buesseler et al., 2006, Chen et al., 2008).

Sampling of dissolved ²³⁴Th and ²³⁸U occurred every other day at the Stations 1, 3, 5, 7, 9, 11, 13, 16, 18, 20, 22, 24, 26 and 28. Fifteen 4 L samples of unfiltered seawater were collected from the stainless steel CTD that was deployed with the in situ pumps. Samples were collected at 5-700 m depth for analyses of ²³⁴Th activity to calculate POC flux. At Station 19 two deepwater samples at 1000 m were taken as reference samples. All ²³⁴Th samples were acidified to pH <1.5 (~1.3) concentrated nitric acid (68 %) directly after sampling. Further, 100 µl of yield standard solution was added. After 8 h, the pH was neutralized to pH 8.2-8.5 (~8.3) using concentrated ammonium solution (\geq 25 %). 50 µL of KMnO₄-solution and 50 µl of MnCl₂-solution were added to co-precipitate ²³⁴Th with MnO₂. After waiting for 8 h, the precipitate was filtered onto QMA filters, rinsed with pH 9 MQ water and dried at 50 °C for ~ 5h. Sampling bottles were cleaned with 500 mL of H₂O₂/HNO₃-solution and rinsed three times with MQ. Before sampling, the bottles were rinsed three times with seawater and the vials three times with filtered seawater from the according Niskin-bottle (for details on filters used for sub-samples refer to the 'In situ pumps' Section)

At each Station where sampling of dissolved ²³⁴Th and ²³⁸U occurred, twelve samples for particulate ²³⁴Th, biogenic silicate (BSi), particulate inorganic carbon (PIC) and genomics were collected from the in situ pumps at six depth 20-700 m at the Stations 3, 5, 7, 9, 11, 13, 16, 18, 20, 22, 24, 26 and 28. Here the two pore-sizes, 1 μ m and 51 μ m, were sampled for each of the six depth accounting for two samples per depth. The polyethylene meshes were rinsed with thorium-free underway seawater (pH brought up to 8.2-8.5 and 125 μ L of KMnO₄-solution and 125 μ l of MnCl₂-solution were added to co-precipitate ²³⁴Th with MnO₂) and filtered onto a QMA filter for the particulate ²³⁴Th and 0.4 μ m polycarbonate membrane filters for PIC and BSi. QMA-Filters were dried at 50 °C for ~ 5 h and the membrane filters for ~5 h. After drying, each QMA filter was covered in plastic foil and wrapped with aluminum foil onto the sample holder. Membrane filters were stored at room temperature in petri dishes for further analysis at GEOMAR.

For all samples of dissolved and particulate ²³⁴Th, total beta activity was measured using a Risø low-level beta GM multicounter until the error of the measurement reached values $< \pm 5$ % ($\sim \pm 2.5$ % most often). Measurement time ranged from ~ 8 h for the particulate ²³⁴Th samples to ~ 4 h for the dissolved ²³⁴Th samples. After the beta counting, the samples were stored at room temperature. All ²³⁴Th samples will be measured after 6 months for baseline radioactivity correction. ICP-MS analysis of ²³⁰Th will be conducted to determine the individual yield for Thorium recovery rates. From every depth of ²³⁴Th sampling, 10 mL of filtered seawater were sampled for analysis of ²³⁸U. Samples were collected in 15 mL screw-lid vials, acidified with 20 µL of concentrated HCl (32%) and stored at room temperature. The concentration of ²³⁸U will be determined at GEOMAR using ICP-MS, PIC concentrations and δ 13C will be determined at GEOMAR using the Mortlock and Froelich (1989) method.

5.15 Microplastics Sampling

(L. L. Cai)

The aim is to further unveil the vertical profile of microplastics on the eastern sector of the Mediterranean Sea. Seawater and sediment samples were collected for quantification and characterization of microplastics. Seawater was retrieved from Niskin bottles that sampled at the bottom, middle and surface of the water column (the exact depths of bottom and middle were dependent on station depth and surface on weather conditions). In total 28 stations were sampled for microplastics in seawater. Dedicated 10 L Niskin bottles were used to ensure retention of all potential microplastic particles, as different plastic polymers and shapes express flotation discrepancies. The seawater was then filtered through mixed cellulose ester filter papers (47 mm diameter, 0.45 μ m pore size) by using a glass filtration system (Figure 5.02). Filter papers were then oven-dried at 55 °C for 1 hour before stored individual in plastic petri dishes for transportation to CMMI laboratories. There, the filters will be made transparent using immersion oil and examined under a light microscope for microplastic quantification and characterisation.



Fig. 5.02 Filtration system for water samples and petri dishes with dried filter papers ready for storage.

Seafloor sediment was sampled using a multi-corer system, from which the top 5 cm sediment of a single core was utilized for microplastics analyses (Figure 5.03). In total 19 stations were sampled for microplastics in sediment. Sediment was collected using a metallic spatula and placed in a glass jar. Samples were then oven-dried for \sim 72 h at 55 °C. Analysis on the sediment samples will take place at CMMI, where sediment will be weighed, and microplastics will be extracted using a density separation method based on a hyper-saline solution. During this process, the supernatant will be retrieved and filtered using a glass filtration system onto a mixed cellulose ester filter paper (47 mm diameter, 0.45 µm pore size). Microplastic quantification and characterization from filters will be carried out via microscopy. All the analyses will involve standardised methods to minimize microplastic contamination.



Fig. 5.03 A: multi-corer after a successful deployment. B: extraction of corer for sampling. C: microplastics sample collected.

5.16 Molecular/Elemental Signatures of Particulate and Dissolved Organic Matter

(J. Li)

To assess the association between particulate and dissolved organic matter (POM/DOM) and metals, I collect both the POM and DOM samples using a setup in a cold lab. Two-liter unfiltered seawater from 6 depths between 20 m to 1000 m (including DCM layer) collected in TM_CTD of 25 stations was used to concentrate DOM and POM (Section 12.01). In total of 147 dissolved and particulate organic matter samples were collected onto ENV solid phase extraction cartridges (500 mg) and Sterivex PVDF 0.22 μ m filters, respectively. The cartridges for dissolved part were frozen at -20°C and will be extracted and analysed by high performance liquid chromatography – electrospray ionisation mass spectrometry – inductively couple plasma mass spectrometry (HPLC-ESI/MS-ICP/MS). The filters for particle part were frozen at -80°C and the organic matter will be extracted from particles with a mild extracting agent that solubilises organic matter with minimal molecular alteration at pH 7.8 and analysed by high performance size exclusion chromatography (HPSEC) -ESI/MS-ICP/MS. We will quantify Sulfur, Phosphorus and metals as a function of molecular size and hydrophobicity (Gledhill et al., 2022). Based on this, the relationships between elements in organic matter and determine the association between elements and size fractions will be examined. Our

overarching aim will be to examine changes in these relationships within the Mediterranean Sea and relate them to the biogeochemical regime in the region.

5.17 Alkaline Phosphatase Activity and Particulate Organic Phosphorus

(J. Li)

AP is a typical phosphorus limitation bioindicator in the oligotrophic sea area. To investigate the AP activity profile of Mediterranean Sea, 10 mL seawater samples from 9 depths between 6 m to 250 m collected in SS CTD of 30 stations were collected to carry out bioassay (Section 12.11). Methylumbelliferyl phosphate (MUF-P; 50 nmol L⁻¹) was used as the organic phosphate substrate and directly following the protocol of Browning et al. (2017). Fluorescence was measured on a plate reader (FLX800TBI, BioTek) with Gen 5 software using an excitation wavelength of 365 nm and an emission wavelength of 455 nm. Following MUF-P spiking, fluorescence measurements were performed at 0 h and 3 h. AP activity indicated by MUF-P turnover time (h⁻¹) was calculated as fluorescence of 50 nmol L⁻¹ 4-methylumbelliferone (MUF) divided by the initial (0 h to 3 h) slope of fluorescence time course (fluorescence per hour). Meanwhile, 8 L seawater samples from the same depths were collected and filtered onto the pre-combusted (combusted in a Muffle Furnace at 450°C over 5 h) 25-mm GF/F membranes and put in the freezer. Before analysis, each membrane will be autoclaved at 121°C for 30 min with 5% acid potassium persulfate (K₂S₂O₈) and the DIP concentration in the solution will be determined by a phosphorus molybdenum blue spectrophotometry.

5.18 DOP Incubation Experiment

(J. Li)

To investigate the bioavailability of one typical terrigenous DOP species, phytic acid (PA), we carried out 4 microcosm incubation experiment. Seawater samples were collected from tow-fish pump (depth of 5 m). Samples were then transferred into 4.5-liter transparent plastic bottles and incubated in a water tank on deck with a continuous flow of surface seawater with blue lagoon filter (Lee filters) to adjust light to ambient irradiance (Section 12.12). Four groups were setup: Control group (no nutrient added), PA group (0.5 uM phytate added), N group (2 uM ammonia added), and PA+N group (0.5 uM phytate and 2 uM ammonia added), each in triplicate. After 2 days and 5 days incubation, cells were collected for Flow cytometry, chlorophyll (GF/F filter), AP activity, and DNA (47 mm 0.22 um PC membrane). The filter samples will be used for RNA and DNA extraction, and the community structure changes and differential gene expression of phytoplankton under PA addition will be analysed.

5.19 Rainwater Collection

(A. Nicolas)

Rain water was collected using acid cleaned plastic funnel and 1L LDPE bottles. Different kinds of sub-samples were collected depending on the volume of rain collected and processed as for seawater samples (See 'Macronutrient' and 'Trace Metal' Sections).

Table 5.02	Rainwater samples collected

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Sample	Date	Time (UTC)	Samples

1	12.01	17:24 - 18:24	Nutrients	DTM			
2	13.01	7:02 - 7:20	Nutrients	DTM			2 Aliquots for B. Herut
3	13.01	12:30	Nutrients	DTM	TDTM	Total Hg	2 Aliquots for B. Herut
4	15.01	14:00	Nutrients	DTM			2 Aliquots for B. Herut

5.20 HPLC, POC/N, Chlorophyll-a

(A. Blachinsky)

Samples were collected to characterize phytoplankton biomass, and community structure throughout the cruise transect. Samples were collected at 28 stations at 8 depths throughout the upper water column (7-200 m for chlorophyll a); and 6 depths throughout the upper water column (7-120 m for HPLC and POC/N). Depths of sampling were selected after consultation with the fluorescence trace on the CTD. Water was collected in 10L opaque carboys and processed immediately after collection. Samples were collected for analysis of the following: - Chlorophyll-a concentrations: 500 mL samples were filtered onto Fisher MF-300 GFF filter pads and extracted for 20-24 hours in 10 mL 90% acetone in a -20 °C freezer in the dark before measurement on a Turner Designs trilogy fluorometer. High-Performance Liquid Chromatography (HPLC): 3-4 L seawater was filtered onto Fisher MF-300 GFF filter pads and placed directly into a -80 °C freezer. These will be analysed on return to GEOMAR. Particulate Organic Carbon (POC): 4L seawater was filtered onto pre-combusted (4h; 450°C) Whatman glass microfiber filters, Grade GF/F. To remove inorganic carbonate, POC samples were dried overnight in an oven at 60°C for 12-14 hours. These will be analysed on return to GEOMAR.

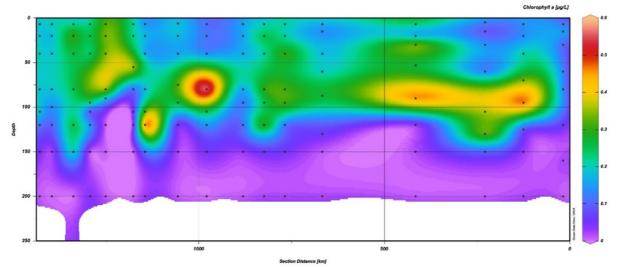


Figure 5.04 Spatial changes over the course of the M197 cruise in the extracted chlorophyll *a* in units of μ g/L calculated by a Turner Designs trilogy fluorometer. ODV interpolation (x – 18, y – 20) Data have not gone through quality check.

5.21 Microbial Genomics

(C. Eckmann, J. Ivaldi)

During this cruise we conducted sampling to characterize the microbial community throughout the water column. We collected water for DNA, flow cytometry (FCM), and meta-genomic (meta-g) samples. These samples will be further processed in the laboratory of Alexandra Worden at the Marine Biological Laboratory in Woods Hole, Massachusetts by C. Eckmann and Rachele Spezzano later this year.

For DNA samples, the V1V2 region of the 16S rRNA gene (present in bacterial DNA and in the bacteria-derived plastid of eukaryotic phytoplankton) will be amplified to allow for the identification and calculation of relative abundance of microbes. FCM samples will be analyzed to quantify absolute abundance of microbes identified based on size and fluorescence to a broad taxonomic and/or trophic category (e.g., cyanobacteria, heterotrophic bacteria, picoeukaryotes). Together, these will allow for precise quantification at a fine taxonomic resolution for many important marine microbes. Meta-g samples will complement this information by providing insights into the metabolic potential of this microbial community. DNA samples were collected in duplicate from 6 depths in the photic zone, including the deep chlorophyll maximum (DCM) when present, and 6 depths from below the photic zone to the seafloor. 1 L of seawater per replicate was filtered using 47 mm diameter 0.2 µm pore size filters. FCM samples were collected from the same depths but in triplicate to allow for differences in flow cytometry settings to capture a broad range of particle sizes. 1 mL of seawater was fixed using 1 µL of 25% glutaraldehyde, incubated in the dark for 20 minutes, then flash-frozen in liquid nitrogen. Meta-g samples were collected by filtering approximately 20 L of seawater from the surface (5-7 m) or the DCM through a 20 µm mesh onto 142 mm diameter 3 µm filter then sequentially onto a 142 mm diameter 0.2 µm filter. For meta-g samples, corresponding size-fractioned DNA samples were also taken. All samples were stored at -80°C. The total number of samples was 720 DNA, 1,080 FCM, 52meta-g, and 52 sizefractioned DNA.

Subsets of the in-situ pump filters were collected on days when Jana Blanke sampled for thorium. These will be processed along with the water column DNA samples to determine the microbial community contributing to the particulate fractions (51 μ m and 1 μ m pore size). In addition, we collected samples for lipid analysis using the same methods as for the DNA samples, except using a PVDF membrane filter and sampling every other day from 3 depths: surface (5-7m), DCM, and 300 m.

5.22 Primary Productivity, Dark Carbon Fixation and Nitrogen Fixation

(T. Reich)

Inorganic carbon assimilation by phytoplankton is fundamental to life in the ocean and greatly influences the oceanic carbon cycle. These primary producers are at the base of the oceanic food web and are the first to convert dissolved CO_2 into available organic carbon for the higher trophic levels. Measuring primary production (PP) rates at the eastern Mediterranean's euphotic zone provides vital information on photosynthetic activity by photoautotrophs within an ultra-oligotrophic sea. These rates facilitate our understanding of the potential for carbon

export to the deeper oceanic layers. In addition to measuring photosynthetic carbon fixation and export it is important to measure the inorganic carbon that gets fixed by chemoautotrophs (i.e. Dark carbon fixation (DCF)) within the photic zone and also deeper in the aphotic zone. Combining PP and DCF provides a better assessment of new organic carbon production and the potential of carbon export to depth.

Dinitrogen fixation (N₂ fixation) by a subset of prokaryotic phytoplankton, bacteria, and archaea, is a major source of new nitrogen that is added to the world ocean's – especially in the nitrogen limited surface waters. Historical evidence, based mostly on isotopic composition of $^{15}N/^{14}N$, indicates that N₂ fixation contributed significantly to organic matter in the Mediterranean. Overall results from ~ 15 years show that the potential for N₂ fixation exists and a diversity of diazotrophs are recorded across the Mediterranean. Yet, in the eastern Mediterranean Sea actual volumetric and areal rates of N₂ fixation are generally very low (range: 0 to 17 nmol N L⁻¹ d⁻¹ and 0- 50 µmol N m⁻² d⁻¹ respectively in the upper water column) and no typical seasonal patterns were observed. More recent work shows N₂ fixation also occurs in the dark below the photic zone and has also been measured in the Mediterranean. Here we targeted several representative stations and depths where diazotrophs (N₂ fixing organisms) may be found and performed analyses to determine N₂ fixation rates.

Sampling information:

Euphotic zone sampling - Samples were collected from 6 depths at most stations along a transect from the east to west sides of the levant basin of the Mediterranean Sea. 7 Samples of 1.2 L were collected using a SS-CTD at 6 depths with some variations (7, 20, 40, 80, 100-DCM and 120 meters). 3 bottles were placed in light adjusted incubators to match source levels (100%, 50%, 25%, 10%, 1% 0.1% PAR of total radiation) for total production rate measurements and 3 in dark incubators to account for the chemosynthetic activity.

Aphotic zone sampling - Samples were collected from 6 depths at most stations along a transect from the east to west sides of the levant basin of the Mediterranean Sea. 4 Samples of 1.2 L were collected using a SS-CTD at six depths (a changing bottom depth, 800, 600, 400, 200, 150 meters). Samples were incubated for 24 hours prior to filtration in dark incubators at ambient sea water temperatures (flow through to the ship).

Nitrogen fixation – At stations 6, 11, 17 and 25 water was collected from 3 depths (15m, DCM and 120m) in triplicate 4.6 L bottles using a SS-CTD.

Bioassay aggregation experiment - The objective of these bioassays was to evaluate whether particulate organic carbon facilitates DCF rates and can elevate the potential export of newly fixed carbon from the euphotic zone into the deep ocean. 4 bioassays were set up during the cruise. Each assay included triplicate 4.6 litter bottles of 2 sets of samples (control and treated) from 2 depths (DCM and below with variation according to the station profiles). To the treated samples Gum Xanthan was added to give an organic carbon source in particulate form. All samples were spiked with and placed in dark incubators for 24 hours. Before and after 24 hours all treatments were sampled for 13C uptake, FCM, TOC, TEP and DNA.

 Brief experimental protocols Primary productivity and DCF - Samples were spiked with NaH¹³CO₃ (99 atom% 13C, Cambridge Isotope Laboratories) final concentration 20 μM stock. Bottles where placed in light adjusted on-deck incubators to match source levels for total production rate measurements or dark incubators to account for the chemosynthetic activity with running surface seawater. After incubation samples were filtered in precombusted GF/F (Whatman, $0.7\mu m$ pore size, 25mm) filters and placed over night in a 60 °C oven for drying.

Nitrogen fixation - Each bottle was spiked with 40ml ¹⁵N₂ stock (98 atom%, Cambridge Isotope Laboratories) dissolution method (final concentration is TBC) and 460µl NaH¹³CO₃ (99 atom% 13C, Cambridge Isotope Laboratories) final concentration 20 µM. Bottles were placed in incubators with neutral-density mess or complete dark to adjust to light levels of sample source and incubated for 24 hours in an on-deck incubators with running surface seawater. After incubation samples were filtered in pre-combusted GF/F (Whatman, 0.7µm pore size, 25mm) filters and placed over night in a 60 °C oven for drying.

Future analyses – All filtered samples are going to be sent to mass spectrometry analysis to determine 13C and 15N assimilation rate in each sample at the end of the cruise and are expected to take 3 months to have results. FCM, TEP, TOC and DNA samples are going to be analyzed and processed at IOLR in the weeks after the cruise and are expected to be ready after 2 months. All samples will be processed by or under the supervision of T. Reich

5.23 Phytoplankton Photo-physiology

(I. Berman-Frank)

Single-turnover active fluorometry (STAF) is a technique used to assess phytoplankton photophotophysiology and estimate photosynthetic rates. During M197, A Chelsea Technology Ltd LabSTAF instrument (More information about the instrument and approach can be found in the instrument handbook, available on the Ocean Best Practice Repository: https://repository.oceanbestpractices.org/handle/11329/1531.4.rs) was utilized to examine several objectives:

- 1) What are photophysiological changes along the cruise track (surface waters)?
- 2) What are the diel photophysiological signatures and do these change in different mesoscale features (cyclonic versus anticyclonic eddies)
- 3) How do photophysiological signatures vary with depth in the photic zone?
- 4) What do the photophysiological signatures reveal about community composition of the surface phytoplankton?
- 5) How do nutrient and aerosol enrichments impact the photophysiological response?

Data sets were collected for underway surface populations. The data was collected continuously to examine daily patterns at each station (diel changes in photophysiological activity) and also between stations along the cruise track within the allowed work-areas. Additionally, data was collected daily at each station for 6 pre-determined discrete depths within the photic zone from the shallow CTD-Rosette. These discrete samples were run using a measurement protocol with 5-6 light levels to obtain photosynthetic parameters for the dark regulated state and also be able to derive gross oxygen evolution of PSII. For the different depths photosynthetic excitation profiles (PEP) were measured using 7 different excitation wavelengths. These measurements allow for automated spectral correction of derived

photosynthetic rates and provide a way to track changes in phytoplankton species composition. Further, for all samples dual waveband measurements (DWM) were acquired at two emission wavelengths. DWM values are being tested to provide a proxy for the so-called pigment packaging effect.

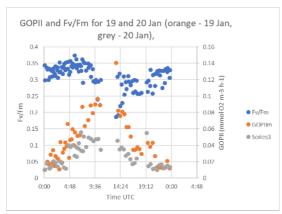
The LabSTAF was connected to the continuous seawater supply of the vessel throughout the cruise (membrane pump) and was run using a measurement protocol that included 8 light levels (Auto adjusted) to obtain fluorescent light curves (FLCs) that allows the derivation of the dark-regulated photophysiological parameters and estimates of photosynthetic rates at 7 reference light level. The limited biomass in this region (and especially in the eastern parts of the transect required 80 sequences/acquisition and only one ST flash. On 27 Jan, the peristaltic pump that exchanges the water in the sample chamber broke down and "continuous" measurements were done manually when possible, at a frequency of one FLC per half hour (using the same protocol as above). See Section 12.13 for a summary of measurements and protocols.

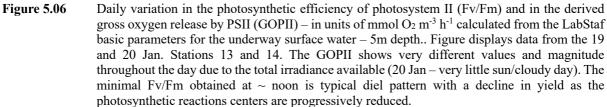
The LabSTAF was additionally utilized in all bioassay experiments done on board M197 (T. Browning, A. Blachinsky, J. Li). These bioassays were set up to test what the limiting nutrient/s are for the ambient phytoplankton populations. Nutrient additions of varying N and P sources (both inorganic and organic) were added and phytoplankton populations incubated for 48 h and 5 days.

The LabStaf was also used to measure changes in phytoplankton population and activity for bioassays testing the impact of aerosols and leached nutrients from aerosols (For B. Herut and B. Ankri).



Figure 5.05 Spatial changes over the course of the M197 cruise in the photosynthetic efficiency of photosystem II (Fv/Fm) and in the derived gross oxygen release by PSII (GOPII) – in units of mmol $O_2 m^{-3} h^{-1}$ calculated from the LabStaf basic parameters for the underway surface water – 5m depth.





5.24 Nitrogen Uptake Rates and Urea Concentration Analysis

(A. Blachinsky)

Uptake experiments were carried out using ¹⁵N urea, ¹⁵N nitrate, and ¹⁵N ammonia + ¹³C-HCO₃ as tracers. To carry out the uptake experiments as close to in-situ conditions as possible, we planned to add the labelled tracer at ~10% of the ambient concentration, and no more than 20%. To assess the desired concentration, uptake rates experiments were conducted following the nitrate concentrations examined daily on RV METEOR. However, it was always necessary to make the addition in the field before we had determined the actual ambient concentrations. In the case of nitrate – we used the measured data from samples collected the previous day to estimate the amount of tracer to add. Based on these considerations, ammonium was estimated to be 0.02-0.1 μ M and urea was estimated to be 0.1-0.2 μ M. We used the ratio between ammonium to urea concentration in similar oligotrophic systems, in addition to the ammonium concentrations. The actual percentage of the NO₃⁻ tracer and the ammonium and urea addition are given in Section 12.14.

The water was sampled into 4.5L bottles from trace metal clean tow-fish from 5 m depth. This volume was chosen to avoid results below the detection of the mass spectrometer by adding 10% of ¹⁵N of assumed ambient concentration (~1 nM ¹⁵NO₃⁻). The incubation treatments were first spiked with the ¹⁵N and then incubated at ambient water temperature in flow-through water tanks on deck, with blue lagoon filter (Lee filters) to adjust light to ambient irradiance. The t₀ treatments were spiked and immediately filtered (3L). 3L of The remaining samples were filtered at t = 4-6 hours onto pre-combusted (450°C; 4h) 25mm GF – 75 (0.3µm retention

The filters were then stored in a -20° C freezer. The filters were dried overnight at 60°C oven before transport to Israel (Morris Kahn marine station). Filters will then fumed in a desiccator for 24 h in the presence of concentrated HCL and then redried at 60°C for 1 hour.

The samples will be sent to Prof. Mark Altabet to be analysed by Continuous Flow-Isotope Ratio Mass Spectrometer (CF-IRMS) at the MBL Stable Isotope Laboratory which is located at the Ecosystems Center on the campus of the Marine Biological Laboratory in Woods Hole, Massachusetts.

Urea concentrations from t=0 h samples will determine using a frozen filtered nutrient samples. The samples will be analyzed by an adaptation of the manual method using a 3 day incubation at room temperature. 35 ml of thawed sample will be placed into a 50 ml pre-washed dark bottle (1 time 10% HCL follow by 3 times distilled water followed by 1-time *Milli-Q water*). To each bottle, 2.5 ml of Reagent A (diacetyl monoxime together with thiosemicarbazone) and then 8 ml of Reagent B (ferric chloride solution) will be added. The samples will transfer immediately after the addition of reagents into a dark drawer at controlled room temperature (24°C) for 68-72 hours of incubation. The samples will subsequently be analyzed in a dark room using a GENESYS 150 UV-Vis Spectrophotometer with a 10 cm cuvette at 520nm.

5.25 Nutrient Addition Bioassay Experiments

(J. Li, A. Blachinsky, T. Browning, I. Berman-Frank)

A total of 4 microcosm nutrient enrichment experiments were carried out to assess for limiting nutrients to the phytoplankton community to (Section 12.15). The first two experiments were carried out with ammonium, phosphate, and dissolved organic phosphorous while the last two were carried out with the addition of urea and nitrate to the previous treatments. Treatments combinations are shown in Section 12.15. Seawater samples were collected from tow-fish pump (depth of 3-5m). Samples were then transferred into 4.5-liter transparent plastic bottles. Every treatment was conducted in triplicate. After spiking, the bottles were incubated in a water tank on deck with a continuous flow of surface seawater with blue lagoon filter (Lee filters) to adjust light to ambient irradiance. The treatment incubated on board for 5 days from the time of spiking (t = 0). We used a PAR sensor to measure the incubation percentage from natural irradiance and at the end of the cruise.

Chlorophyll a, Single-turnover active fluorometry (STAF), and APA parameters are explained specifically in the relevant sections of this report.

Flow Cytometry to assess picophytoplankton and bacterial abundance: Two ml from each treatment was sampled at t = 2,5 days into a cryovial and fixed with a flow cytometry grade glutaraldehyde solution (0.125% final concentration) (NH₄⁺ (as NH₄Cl) + PO₄⁻ (as KH₂PO₄); NH₄⁺; PO₄⁻; control; urea + PO₄⁻; NO₃⁻ + PO₄⁻)) or Paraformaldehyde solution (1% final concentration) (control; NH₄⁺; DOP; NH₄⁺ + DOP). Samples were incubated for 10 minutes in a dark box before flash freezing at liquid nitrogen. After the flash freezing, sampled were stored at -80°C. The FCM samples will be measured on a flow cytometer (FACSCantoII, BD) at the university of Haifa and then analyzed with FlowJo software (FlowJo v10.8.1).

5.26 Coccolithophores Abundance & d¹³C-DIC

(Y. Han, Z. Steiner)

Marine calcium carbonate production is an important process in modulating global ocean alkalinity, which impacts oceanic carbon dioxide release and absorption. Coccolithophores are currently the dominant calcifying organisms in the Mediterranean waters and are expected to play a significant role in global seawater CO₂ buffer and in oceanic sink for anthropogenic CO₂. The isotopic fractionation in the coccoliths can reflect the biomineralization process and physiological response of calcifying organisms to environmental conditions.

Seawater samples were collected from six depths at stations 1, 3, 5, 7, 9, 11, 13, 16, 18, 20, 22, 24, 26 and 28, for coccolithophore and d¹³C-DIC analysis. 3 liters of seawater were gently filtered through 0.8 µm pore-size, 25 mm diameter, polycarbonate membranes using a vacuum pump with lower than 20 mm Hg pressure. Filters were oven dried at 60°C and stored in plastic petri dishes. Coccolithophore samples will be analyzed using scanning electron microscope at Xiamen University. d¹³C-DIC will be determined at Woods Hole Oceanographic Institution using a Picarro CRDS (G2131-i) coupled to Picarro Liaison interface and a modified AutoMate autosampler (Subhas et al., 2015).

5.27 Plankton Sampling with Net Deployments

(T. Guy-Haim, M. Gilboa)

Mesoscale eddies form unique habitats characterized by distinct physical and chemical conditions, with high (cyclone) or low (anticyclone) productivity, supporting and distributing a wide variety of plankton, including the larvae and eggs of benthos and fish. The Eastern Mediterranean Sea (EMS) fosters complex and persistent eddying activity. Eddies are of particular importance in the EMS, a "blue desert" characterized by low biomass and productivity levels, accelerated warming due to climate change, and high rates of biological invasions. To test the role of eddies as unique habitats and transport vectors of plankton, we aim at characterizing the micro, meso and macro -plankton within cyclonic and anticyclonic eddies.

Plankton communities were sampled using three consecutive vertical net deployments: (1) WP2 net (Hydro-Bios, \emptyset =57 cm, 50-µm mesh size), (2) WP3 net (Hydro-Bios, \emptyset =113 cm, 1000-µm mesh size), and (3) MultiNet Midi (Hydro-Bios, 50X50 cm, 200-µm mesh size, equipped with CTD, fluorometer and oxygen sensor). At each station, the following depth layers were sampled:

Net	Target community	Depths (m)
WP2	microplankton	0-200
WP3	macrozooplankton	0-200 / 0-400*
MultiNet (net #5 – net #1)	mesozooplankton	0-50, 50-100, 100-200, 200-400, 400- 700

The nets were hauled at 0.5 m/s (0-400 m WP3 nets were hauled at 0.2 m/s every alternating day). Filtered water volume was calculated using a mechanical flow-meter (Hydro-Bios). In total, 210 net samples were collected.

Analysis type	Biomass / SIA /	Metabarcoding	ZooScan /
	HM		Planktoscope
Sample preparation	Filtration, 55 °C 24	Ethanol 100%	Buffered formalin
	h		(4%)
WP2	50%	25%	25%
WP3*	25%	50%	25%
MultiNet (net #5 – net	25%	25%	50%
#1)			

Motoda splitter (Hydro-Bios) was used to split each sample as follows:

*SIA=Stable Isotope Analysis, HM=Heavy Metals.

Samples for biomass were filtered on pre-weighted pre-combusted GF/C filters (Whatman) and oven-dried at 55 °C for 24 hours onboard. Following weighing in Guy-Haim Lab, the filters will be halved for C and N stable isotope analysis (Cornell University Stable Isotope Laboratory), and heavy metal analysis (Chemistry dept., IOLR). DNA from the ethanol-preserved mixed samples will be extracted in lab, and used for amplification and sequencing of COI and 18S v9 amplicons (Guy-Haim Lab, IOLR). Additional specimens, manually picked from nets, will be morphologically identified using microscopy, followed by DNA barcoding. Sample (mixed and individual) sequences will be uploaded to NCBI GenBank. Fresh samples from the WP2 net were sieved to obtain the 50-200 μ m fraction, and imaged onboard using Planktoscope v2.5 (Fairscope). Following segmentation, all vignettes (e.g., Fig. 2) will be uploaded to EcoTaxa and classified to taxonomic groups using AI (https://ecotaxa.obs-vlfr.fr/) with the corresponding sample metadata. MultiNet (>200 μ m) and WP3 (>1000 μ m) formalinfixed samples will be scanned in Guy-Haim Lab, segmented using ZooProcess and classified to taxonomic groups using EcoTaxa.

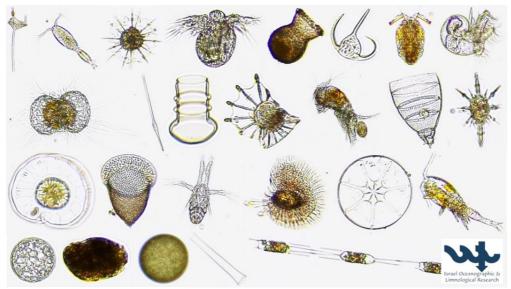


Fig. 5.07 Vignette examples obtained by Planktoscope from 50-200 μm size fraction of 50-μm mesh WP2 nets hauled to 0-200 m during M197.

5.28 WP3 Net Deployments

(N. Hansen, T. Guy-Haim, M. Gilboa)

Zooplankton nets are one of the oldest oceanographic instruments and are used to study diversity, abundance, biomass, and distribution of zooplankton. During M197, we performed vertical WP3 tows at 0.2 m s⁻¹ heaving speed using a 1000 µm mesh size net from 400 m water depth to the sea surface. The low heaving speed allowed us to sample well-preserved fragile organisms, including gelatinous zooplankton. We equipped the net with a flowmeter to monitor the sampled water volume. From the samples, we picked gelatinous individuals and stored them at -80°C for DNA barcoding and DNA metabarcoding of the stomach contents. At the end, we want to alter the regional DNA barcode library of gelatinous organisms for other approaches, including eDNA. From the stomach content analysis, we will study the trophic ecology of these organisms. Additionally, we picked fish larvae that were stored at 99% EtOH. In total, we had 15 WP3 deployments at 15 station with a total of 100 samples.

5.29 Environmental DNA (eDNA)

(N. Hansen)

We sampled eDNA at 8 stations (M197_2-4, M197_5-5, M197_7-5, M197_9-5, M197_13-5, M197_18-5, M197_20-4, M197_26-4) by filtering 2 liters of water in triplicates (3 filters) each at 6 ecological depths We took negative controls (MilliQ water) at each station. We sampled a total of 141 eDNA Sterivex[™] filters from in situ pump CTD water and 8 eDNA Sterivex[™] filters from MilliQ water. We will apply DNA metabarcoding protocols to identify species that avoid towed instruments and that we do not see in pelagic video transect nor catch with zooplankton nets. We will extract the DNA from the filters via standardized extraction kits, then perform polymerase chain reactions (PCRs) to amplify the DNA region of interest. The amplified DNA will be sequenced via Next Generation Illumina Sequencing. Furthermore, we also sampled sediment from the upper 1 cm of cores taken with the TV Multicorer at 16 stations. With these samples we will also apply DNA metabarcoding to identify pelagic species that may play a role in benthic-pelagic coupling.

5.30 In Situ Camera – Small Pelagic in situ Observation System

(N. Hansen)

During M197, we were interested in the vertical distribution of gelatinous zooplankton in the epipelagic (0 - 200 m) and mesopelagic (200 - 1000 m). The abundance, diversity and distribution of organisms in the water column can vary with sea surface productivity, stratification (i.e., the ecological zones that are shaped by the physical and biogeochemical environment), and temporal patterns, including seasonal and diel dynamics. For example, the distribution of certain taxa varies between day and night as a result of diel vertical migration (organisms are hiding in the mesopelagic during day and migrate to the sea surface to feed during night). Due to their fragile nature, most gelatinous organisms are destroyed by traditional zooplankton sampling methods, including nets. Therefore, in situ optic systems are used congruently to zooplankton nets to study gelatinous zooplankton. We deployed the small towed pelagic in situ observation system Baby-PELAGIOS (Fig. 5.08) for horizontal transects

at 9 distinct depths between 25 m and 900 m. The Baby-PELAGIOS was equipped with a forward-looking camera (SubC 1Cam) and 4 LEDs illuminated the water in front of the camera. The camera recorded video with a resolution of 1440x1080 at 25 fps. We monitored the water depth with a HYDRO-BIOS pressure sensor that was mounted on the frame. We performed the horizontal tows at 1 knot (0.52 m s⁻¹) over water of 12 minutes. We selected the transect depths according to the following ecological zones that were identified using provided CTD and Parasound (18kHz) data; mixed layer, deep-chlorophyll maximum (DCM), thermo- and halocline, oxygen minimum zones and scatter layers. In total, we had 24 PELAGIOS deployments (12 day and 12 night) at 12 stations and collected 60 hours of video.

The imagery data will be transformed into iFDOs (image FAIR Digital Objects), containing the video files and all relevant metadata, and stored on the ELEMENTS Server at GEOMAR. At GEOMAR, we will identify the observed taxa (i.e., annotation) to infer the vertical distribution and abundance of gelatinous zooplankton in the eastern Mediterranean Sea. Furthermore, we will test and use image process tools, including segmentation and object detection, to support annotation. At the end, we aim to correlate the vertical distribution, diversity and abundance of gelatinous taxa with e.g., the presence of mesoscale features such as eddies in the eastern Mediterranean Sea.

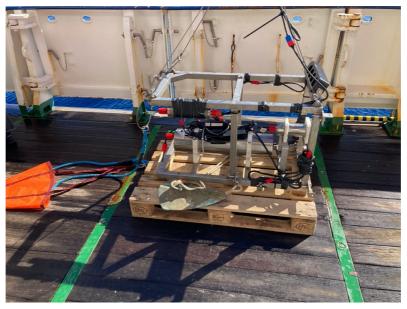


Fig. 5.08 The small pelagic in situ observation system (Baby-PELAGIOS) equipped with 4 LEDs, the forward-looking SubC 1Cam camera, HYDRO-BIOS depth sensor, sea anchor, and weight.

5.31 Aerosols and Bioaerosols Sampling

(B. Herut, B. Ankri)

Aiming to investigate the diversity, abundance and viability of airborne microbes and their associated aerosol chemical composition and interactions with seawater, the following measurements were performed (See also Section 12.16 for schematic):

<u>Bioaerosols low volume sampling</u> - Low volume (8 L min⁻¹) air collection was performed using BioSpot-VIVAS (Aerosol Devices Inc., Fort Collins, CO) that condense aerosols (and its corresponding airborne cells) into a petri dish (Pan et al., 2016; 2018) containing sterile 0.2

um filtered surface seawater (35 mm, 4 ml). The four major sections of the device are the conditioner, initiator, moderator, and collector, which were operated at 4 °C, 40 °C, 28 °C, and 25 °C, respectively. The collected cells were stained and preserved (see below details), thus enabling us to follow the aerosol-borne cells' abundance and viability. The instrument was positioned in the meteorological laboratory with its intake tube on the monkey island of the vessel (no smoking area). Aerosols were collected ~twice per day, 10 h each run continuously during the cruise. Subsamples were collected for prokaryotic bacterial abundance (LIVE/DEAD), nutrients and DNA (if possible). For the prokaryotic bacterial abundance (LIVE/DEAD) water samples were stained immediately upon collection with a mixture of two nucleic acid stains; green-fluorescent SYTO®9 dye and red-fluorescent propidium iodide, and will be analyzed by an Attune® Acoustic Focusing Flow Cytometer (Applied Biosystems) equipped with a syringe based fluidic system and 488 and 405 nm at a flow rate of 25 μ l min⁻¹. The collected samples were kept at 4 °C. For the nucleic acids (DNA level) available volumes of water were filtered through 0.2 μ m sterile PALL filter. The collected filters were kept frozen -20 °C until analyses. A total of ~54 samples were sampled during the cruise.

<u>Aerosols High volume sampling</u> - Two high volume aerosol collectors were operated, one for PM10 aerosols fraction and the 2^{nd} for total suspended particles (TSP) in air. Both samplers were located at the monkey island of the vessel (no smoking area). For PM10 the flow rate was set at 67.8 m³ h⁻¹ and aerosol collection was performed on Whatman 41 filter (acid-cleaned, 203 mm x 254 mm) for DNA, leachable nutrients and other related trace elements. Filters were usually changed every 36-48 h and stored frozen (-20 °C). For TSP the flow rate was set at 70 m³ h⁻¹ and aerosol collection was performed on Quartz (QMA) filter (203 mm x 254 mm, preheated to 450 °C for 3 h) for DNA, chemistry and potentially biotoxins. Filters were changed every 48 hrs and stored frozen (-20 °C). The sampling started on 6 January 2024 and finished on February 4th, 2024. A total of 16 filters per collector were sampled during the cruise.

<u>Sea-spray sampling</u> - Sea-spray aerosols were collected using a bubble-generating system (Rastelli et al., 2017). Surface (~5 m) seawater from the RV METEOR Membrane pump were flowing throughout the cruise track into an airtight bubble bursting tank (200 L). A bubble-generating system was applied at seawater flow rate of 20 L min⁻¹ to produce bubbles, and, in turn, bursting at the water surface forming sea spray aerosol (estimated production of ~2.5x10⁷ particles m⁻² s⁻¹). Such a system has been shown to produce bubble size spectra representative of the breaking waves at open sea and to generate sea-spray particle size distributions representative of the natural ones (Hultin et al., 2010). The collected aerosol particles are concentrated into a petri plate containing 15 ml sterile seawater (<0.2 µm) mounted on a stage Berner impactor operating at a flow rate of 80 L min⁻¹. Daily 6 h collection was performed. Subsamples were collected for prokaryotic bacterial abundance (LIVE/DEAD), nutrients and DNA (if possible). The collected material was fixed and stained for LIVE/DEAD analyses and total bacterial abundance reads using flow cytometry. A total of ~30 samples were sampled during the cruise.

<u>Microcosm experiments</u> – A set of 5 microcosm experiments were performed following different treatments. The experiments included the addition of dust/aerosols collected during a Saharan dust event on the 8-9.1.2024; additions of nutrients; additions of isolated airborne

autotrophs and copepods. The microcosm experiments were performed using surface seawater (5 m deep) collected by the tow-fish pump at stations 2, 3, 9,16 and 24. Incubations were performed onboard in 250 ml pre-cleaned (acid washed) transparent bottles located in a seawater flow tank for 24-50 hours. Subsamples were collected for prokaryotic bacterial abundance (LIVE/DEAD), alkaline phosphatase activity (APA), phytoplankton photophotophysiology, nutrients and DNA (if possible). Subsamples of 0.5 ml were fixed and stained for LIVE/DEAD analyses and total bacterial abundance reads using flow cytometry. Subsamples of 15 ml were run onboard (I Bermn-Frank) by Chelsea Technology Ltd LabSTAF instrument for single-turnover active fluorometry (STAF) used to assess phytoplankton photophotophysiology and estimate photosynthetic rates. Subsamples of 10 ml were run onboard for APA.

5.32 Underway Hydroaccustics

(H. Wilckens and O. Bialik)

Multi-Beam Echo Sounder: During M197, the seafloor morphology was mapped with a Multi-Beam Echo Sounder (MBES), the Kongsberg EM122. The MBES Data acquisition was carried out along the cruse track inside the study area. The MBES is permanently installed on the ship's hull and operated at a frequency of 12 kHz. The swath opening angle across track was set to 130° and the opening angle of each of the 400 beams is 1 x 2 degrees. The Beam Spacing was set to HD Equidistance. For accurate determination of the depth the sound velocity profile was calculated from the CTD data at the stations 1, 21 and 22. Both seafloor and water column data have been acquired and stored. The MBES was very reliable throughout the cruise. On board, the data has not been processed. The data will later be processed and analysed at the University of Haifa. RV METEOR is equipped with a second MBES the Kongsberg EM 710 for shallow to mid-water. The MBES was tested for a short time for imaging the water column but was than permanently turned off due to cross talk between the instruments.

Sediment Echo Sounder: The parametric Sediment Echo Sounder (SES) Parasound DS-3 from ATLAS HYDROGRAPHIC GmbH can image the sub-seafloor structures up to 200 m depth in high resolution. The SES is permanently mounted on the hull of the RV METEOR. The SES makes use of the parametric effect to produce a secondary low frequency based on two primary high frequencies. During M197 the secondary low frequency was set to 4 kHz. The primary high frequency and secondary low frequency was stored as *.asd files and exported to PS3 to SEGY format and visualised with SeiSe of initial quality control. The primary high frequency was also used for imaging the upper 1000 m of water column to show the depth interval of plankton and the migration of zooplankton. This information was used for planning the target area of the PALAGIOS. The system worked mainly reliably and continuously in the designated study areas during the cruise. Once the system was unable to find the seafloor do to steep topography changes leading to a small data gap. Detailed processing and analysis will be conducted after the cruise.

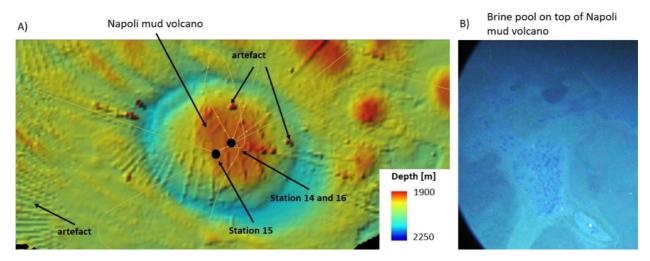


Fig. 5.09 A) Example the unprocessed MBES 122 showing the Napoli Mud Volcano. B) Photo of brine pool with camera that was mounted on top of the Multicorer.

Vessel mounted Acoustic Doppler Current Profiler: During M197 two vessel mounted Acoustic Doppler Current Profiler (ADCP) from Teledyne RD Instruments were operated continuously in the Cypriot EEZ and in ide the designated study area in the Greece EEZ. The ADCP makes use of the Doppler shift to measure current speed and direction in the upper water column. Ocean Surveyor 38 kHz was installed in the on the ship's hull. Due to a malfunction the 38 kHz ADCP only started to work during Station 1. The 38 kHz was setup to high resolution narrowband and the broadband single-ping profile mode. The Bin size was 16 m with 80 bins in total. The blank distance was 8 m. This led to recording of the upper ~1200 m from the water column. Ocean Surveyor 75 kHz was installed in the moonpool instead of the hydrographic shaft. The switch in position probably increased the data quality during recording on station but lowed the resolution during sailing. From the 19.01.2024 to 21.01.2024 the 75 kHz was swished of because the POSIDONIA system was installed in the moonpool. The 75 kHz was setup to low-resolution, long-range profile and the narrowband single-ping profile mode. The Bin size was 8 m with 100 bins in total. The blank distance was 4 m. This led to a recording of the upper \sim 800 m from the water column. The ADCP data was processed during the cruise with the Cascade V7.2 software and displayed with MATLAB (Fig. 5.10). The data will be analyzed in detail after the cruse to better understand the currents during the cruise and the migration of plankton.

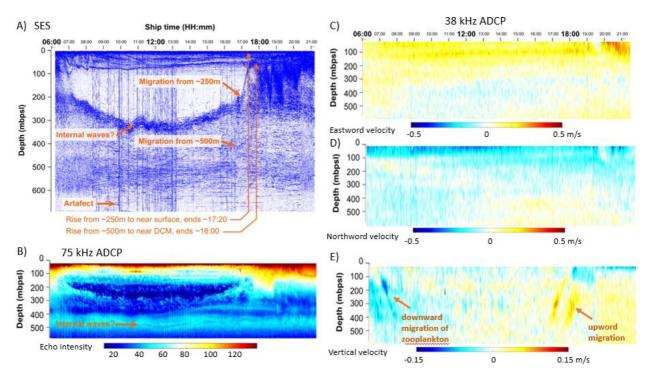


Fig. 5.10 Example of hydroacoustic data collected in the water column during Station 9 for A) Sediment echosounder primary high frequency of 18 kHz, B) 75 kHz ADCP showing the eco intensity, C) 38 kHz ADCP showing the northward, D) eastward and E) vertical velocity.

5.33 Mesoscale Eddy Identification

(M. Gilboa)

Throughout M197 expedition we characterized semi ephemeral and semi constant oceanic features such as mesoscales eddies, with time scales of days to months and mean spatial scales of ± 35 km in the Eastern Mediterranean Sea. Such features can sustain oceanic conditions that promote distinct planktonic communities. In the Mediterranean, anticyclonic mesoscale eddies have a clockwise circulation where warn and nutrient poor sea surface waters are down welled. In comparison, cyclonic eddies can upwell nutrient rich colder waters from deeper layers, enhance primary productivity and support higher planktonic biomass. To better understand how plankton dynamics and community structures are affected by mesoscale eddies, we aimed to sample as many features as possible. This was achieved by near real time on-board analysis. The eddy detection based on daily satellite altimetry (Copernicus, SEALEVEL EUR PHY L4 NRT OBSERVATIONS) and consisted of derived geostrophic velocities from sea surface height (SSH) to calculate and detect the sea level anomalies compared to absolute dynamic topography. These anomalies were then plotted together with streamlines around minimal and maximal values and then detected as eddies. On a regular basis the plots were used to aim towards areas of interest. The corroboration of eddy existence, structure and intensity will be achieved using the physical water characteristics that were measured in situ within and outside of these features. An example figure is shown in Section 12.17.

5.34 Multicore Deployments

(W. Bett, O.M. Bialik, H. Wilckens, Z. Steiner)

Sediments and porewaters: The sediment is an integrated archive of material which were transported to and form in the water column. An exception to this was encountered in stations 14 and 16 on the Napoli Mud Volcano where material is advected from the subsurface onto the seafloor. This material was modified by chemical reactions and microbial activity through its accumulation and burial. These transports and reactions make the sediment both a sink and a source for different elements. In the open oligotrophic waters of the Eastern Mediterranean, the sediment accumulates biogenic material from the water column and benthic community as well as lithogenic material derived from the surrounding continents.

Porewaters are the aqueous medium in the sediment. Diffusion and advection between the porewaters and the bottom waters is an important vector of transport of dissolved material to the deep sea. Porewaters are also a convenient medium for the study of water-solid interactions and the effects of microbial activity. These diagenetic processes are most active within the top of seafloor sediments during accumulation and are driven by organic matter respiration and limited replenishment of oxygen, a combination that often leads to the formation of anoxic conditions in the porewaters.

During cruise M197 short sediment cores with overlaying water were collected using the GEOMAR multi-corer (MUC) with video-telemetry (Fig. 5.11a). The MUC was loaded with 11 liners (60 cm long, 10 cm diameter), three of which were pre-drilled for porewater extraction using Rhizon samplers. Sediment cores were successfully retrieved at 20 stations during the cruise. The last 100 m of the descent were recorded using the video-telemetry to visualize the seafloor surface and ensure safety of decent. The video-telemetry showed the lower part of the liners (Fig. 5.11b) in the MUC and was used to observed if the MUC closed in the water column during high waves. The objectives of the sediment work done during the cruise are to quantify nutrient, trace and major element fluxes between the sediment and bottom-water, explore the benthic environment of the Eastern Mediterranean, and reconstruct changes in the regional ecosystems and pollution levels in the recent past with a focus on the last centuries. A summary of collected sediment samples is provided in Section 12.18.



Fig. 5.11 (A) MUC on deck with sediments from station 9. There is a layer rich in pteropod shells at the surface, and a sapropel at the bottom of the core. (B) Video Telemetry of the seafloor from station 26

Porewaters: The best predrilled core liner, with a visually undisturbed surface and filled to the top with clear overlying water was selected and moved to a cold room shortly after retrieval. The temperature in the cold lab was set to match the Eastern Mediterranean bottom water temperature of 14°C, and the cores were initially left to re-equilibrate to bottom water temperatures for 1-2 hours. The Rhizon samplers were pre-cleaned by soaking them in 3 nM HCl for 24 hours and rinsed and soaked in milli-Q water for a few days before use. The overlying water was sampled using HCl cleaned syringes and filtered using 0.2 µm PES filters. Before collection of overlying water samples, the syringe, filter, and vials were rinsed with the sample three times. 10 mL was each collected for nutrients (analyzed on-board), trace and major elements, and 1 mL for Ammonia. The Ammonia samples were frozen in -20 °C. The rest of the overlying water was then drained. In the first 3 stations, additional samples for alkalinity were also collected. But on-board nutrient results of the overlying water showed values similar to shallow-water depths, indicating contamination of the water during ascent of the MUC. Subsequent alkalinity collection was therefore not performed. At the brine pool stations, overlying water from 4 additional cores was collected for nutrients, trace and majors, alkalinity, chlorinity, and mercury.

The Rhizon samplers were inserted into the drained core and samples collected from top to bottom, usually at a 2 cm resolution. In longer cores, the first 10 Rhizons were inserted every

2 cm and afterwards the resolution decreased to every 3 cm. The first 1 mL collected by each of the Rhizon samplers was discarded, and the next Rhizon inserted only after this step was complete. At total of 5 mL was collected using each Rhizon sampler, 1 mL was set for ammonium and frozen until analyses (-20 °C), the remaining water was stored in HCl cleaned 5 mL polypropylene (PP) tubes and acidified with 50 µL of 4 M Supra HCl at stations 1-12, and from station 13 onwards with 25 µL of concentrated Supra HCl. The tubes contained between 2 and 5 mL of solution. Porewater nutrient samples were diluted 1:6 with nutrient depleted surface seawater sampled from the tow fish. Both the porewater and overlying water were analysed on board for concentrations of soluble reactive phosphorous, nitrite + nitrate (TON), nitrite, and silicic acid. For major element analysis (Ca, Mg, S, K, Sr, Li), samples were diluted at a 1:100 ratio with 0.12 M Supra HCl. The major element concentrations will be analyzed at GEOMAR for their element to sodium ratios using a Varian 720 ICP-OES (Inductively Coupled Plasma Optical Emission Spectroscopy). Trace element samples were diluted 1:25 with 1 M distilled HNO₃, and will be analysed at GEOMAR using an Element-XR HR-ICP-MS (High Resolution Inductively Coupled Plasma Mass Spectrometry).

Core incubations: Sub-cores 3 and 4 were designated for incubation experiments to measure fluxes of inorganic nutrients and major elements at the sediment-water interface. The experiments were carried out in the cold room $(14^{\circ}C)$ in dark conditions. Cores from the first 2 stations were left to equilibrate for 24 hours before the experiment began. In later cores, the experiment started between 8-12 hours after retrieval. An inlet pipe was suspended a few centimetres above the sediments and a shorter outlet pipe submerged below the top level of the water. A peristaltic pump was then utilized to maintain a continuous flow system in both cores. Samples were collected at the start of the experiment (at time T0) to have a baseline of the concentrations. Subsequent samples were collected through a costume made T port at intervals of every 6 hours for the first 4 samples and later increased to every 8 hours for the last three samples. 5 mL was retrieved for nutrients (analyzed on-board), 5-10 mL for trace and major elements. In each sampling between 3-4 mL were discarded during the syringe and filter rinse before sample collections.

Four additional incubation experiments were carried out with resuspended sediment. Sediment from stations 19, 22, and 27 taken from core depths of 0-1 and 9-10 centimeters down cores was resuspended in 0.2µm filtered deep water. Samples from three of the experiments were sampled and filtered every few hours through the experiment for nutrients and trace metals through the 24h run of the experiment. Nutrients from the first two experiments (except ammonia) were measured onboard, and nutrient samples from the third experiment were frozen for analysis in GEOMAR post-cruise. The fourth experiment was a 10h batch experiment with addition of isotopically labeled nitrogen species (N2, NO3, and NH4), which will be analyzed for nitrogen utilization post-cruise.

Solid sediment: Subcore 5, selected as the most representative core, longest and with undisturbed surface was designated for physical properties (porosity and density) and geochemical analyses of clays and bulk mineralogy, trace and major elements, organic carbon and dating techniques. These samples were sliced at a resolution of 0.5 cm for the top 5 cm, 1 cm from 5-15 cm and 2 cm from 15 cm to the total depth of the core. The outer part of the core

was collected and stored in plastic zip lock bags, while the inner part was in pre-weighed acrylic bottles. The later will be analyzed post-cruise for porosity and density. In the last three station the outer part of the liner was discarded and the rest was collected into 80 ml plastic containers.

Sub-core 6 was designated for micropaleontological analysis and was sliced at 1 cm resolution for the entire depth. The top 6 cm were sampled for living foraminifera. The samples of living foraminifera were collected in \sim 80 ml plastic containers with 2/3 of ethanol added to 1/3 of the sediment sample to preserve it. Below this depth, samples were collected at 1 cm resolution and stored in plastic bags. All treatment and analysis of these samples will occur post-cruise.

Additional micropaleontological samples targeting pteropod were collected if additional sub-cores were available. This sub-core was taken at various stations and slicing was carried out based on observation of pteropods during slicing of other sub-cores. Pteropods are diverse planktonic gastropods that occupy unique habitats in the ecosystem and represent an excellent proxy for ocean acidification due to their aragonite shells. The samples collected were washed on-board over a sieve of mesh size 250 μ M and transferred to an oven set at 40° to dry. Subsequent analysis of these sample will be carried out post-cruise with emphasis on their mineralogy and geochemistry.

The top 5 cm of subcore 7 was sliced with a metal tool and stored in a glass jar for analyses of microplastics (see 'Microplastics' section).

The top surface of subcore 8 was sampled with sterile tools for eDNA analysis. In some stations samples for Metagenomics were collected from this core at various depths and later stored in the -80° C freezer.

For visualization of the cores using CT, a 50 mm diameter plastic tube (cut to sediment length + 1 cm) was centrally inserted into the longest undisturbed core, which was then capped. In some stations, samples of Mercury were collected from this core at various depths into small petri dishes and later stored in the -20° C freezer. Mercury samples were collected from a away from both the subcore and the core liner as possible.

All the sediment samples for micropaleontology and geochemistry were stored in a cold room (4°C) after slicing.

5.35 Underwater Vision Profiler

(T. Guy-Haim, M. Gilboa, C. Eckmann)

UVP6-HF installed on the rosette was operated in "CTD" mode. The UVP casts were obtained from each station and uploaded to EcoPart under uvp6_sn000159hf_202301_m197 project. Profiles will be analyzed based on size fraction and corresponding environmental parameters (e.g., Section 12.19). UVP vignettes (segmented images) are uploaded to EcoTaxa and classified to taxonomic groups based on local taxonomic expertise and corresponding stations net samples.

6 Ship's Meteorological Station

(P. Suter)

On the morning of 6 January, Meteor left the port of Limassol heading south in calm seas and sunny, high-pressure weather with weak winds.

A high-pressure zone over the southeastern Mediterranean began to weaken and the research area south of Cyprus was situated on the downstream area of a large low-pressure complex over Italy by 8 January. With slightly increasing winds from the south to southwest, the weather remained calm with temperatures of up to 20°C. However, advected Sahara dust caused slight turbidity in the air. The low-pressure zone spread eastwards over Italy and formed a secondary low in the Aegean Sea by 9 January, which then moved eastwards along the southern Turkish coast. The westerly current reached 6 Bft from midday on 9 January. In conjunction with a cold front in the early morning of 10 January, there were some heavy showers with lightning in the vicinity of the ship as well as gale-force gusts. With the inflow of drier air in the middle and higher layers, the shower activity decreased again during the day. At the same time, the waves from west rose to 2.5 to 3 m.

Subsequently, a stationary low-pressure zone persisted over Cyprus and the Taurus. As a result, it remained windy on 11 and 12 January with winds from west to northwest between 4 and 7 Bft and changeable clouds as well as intermittent showers. The sea reached wave heights of 2.5 to 3.5 m. By 13 January, another low-pressure system followed from Crete, which moved just north of the Meteor towards Cyprus. The passage of the low brought strongly fluctuating winds in the warm air sector in conjunction with repeated showers, with average winds of 6 to 7 Bft at times and gale-force gusts of around 40 kt. At the same time, the lowest air pressure of the expedition was measured with 1006.3 hPa. In the evening, a cold front brought in drier air. The weather and the sea calmed down.

By the evening of 14 January, the research work south of Cyprus was completed within a filling low-pressure zone and Meteor moved westwards into the southern part of the Taurus sea area. Towards the east, a high-pressure bridge formed on 15 January, connecting two highs over eastern Turkey and Egypt. The northwesterly to westerly current was still blowing with moderate to fresh forces. Repeated sunny spells alternated with widespread cloud cover and isolated showers. A new low had formed over northern Italy in the meantime and so the current turned back to southwest by the evening of 15 January. By 16 January, the low-pressure zone had spread eastwards over Italy and formed a secondary low in the Aegean. Between the high-pressure bridge in the east and the secondary low, Meteor was situated within a stormy southwesterly current at times. The wind reached up to 36 knots in the morning, with gusts up to 48 knots. The sea temporarily built up to 3.5 m.

From 17 January, the secondary low moved eastwards along the southern Turkish coast. As a result, Meteor remained between higher pressure to the east and a new low-pressure zone over the western Mediterranean. Thus, calm and, apart from denser cloud cover on 20 January, mostly sunny conditions accompanied the research work southeast and south of Crete until 20 January.

On the night of 21 January, a new low-pressure system moved eastwards from Sicily just north of Meteor over Crete. In conjunction with a high-pressure zone over the Balkans and a marked air pressure gradient, gale-force winds from the north blew in over the Aegean and as far as west of Crete. Overall, the ship was often sheltered from the stormy winds and high seas southwest of Crete until 24 January. However, due to the weather forecast, the station for 22 January was changed in order to avoid the high waves in the southwest of Crete. At the same time, Meteor also benefited from mostly sunny and dry conditions in the lee of the island. The observed wave heights were between 2 and 2.5 m.

On 25 January, Meteor moved slightly westwards to the southwest of Crete and thus left the area protected by the island. A fresh to strong northwesterly wind was still blowing. However, together with the significantly lower waves, the conditions were not comparable to the last few days at this position. On 26 and 27 January, Meteor moved in the southeastern part of the Ionian Sea. Accompanied by plenty of sunshine, a mostly weak northwesterly- and a northeasterly current flowing out of the Aegean repeatedly alternated here.

On 28 January, a strong high-pressure system moved from Central to Eastern Europe and a stationary low-pressure zone remained near Cyprus. Between the pressure formations, a large pressure gradient built up in the Aegean and Ionian Sea. In the area of a convergence zone, the initial northwesterly wind was abruptly replaced by an east-northeasterly wind coming from the southwest Aegean. This quickly increased to 8 Bft with a maximum at 36 knots and only decreased slightly to 7 Bft in the afternoon. The sea increased rapidly in the afternoon hours to around 3 m, with individual waves over 4 m. Showers formed with the converging currents and due to a marked wind shear in the lower air layers and the inflowing cooler air, two welldeveloped waterspouts were also observed. By 30 January, the high had shifted from Ukraine to Romania and remained stationary there. At times there was a pressure difference of 30 hPa between the high and the intensifying low near Cyprus, with Meteor recording the highest air pressure of the trip at 1030 hPa on 29 January. Accordingly, the stormy northeasterly winds persisted in the Aegean and as far as south of Crete. Meteor was already slightly to the west of the strongest winds, with mostly around 6 Bft from northeast to east and wave heights of 2 to 2.5 m prevailing until the morning of 30 January. During the course of 30 January, Meteor was temporarily in the lee southwest of Peloponnese with waves of around 1.5 m before a strong northerly current broke through again in the evening. With the advected cooler air from Eastern Europe, many showers developed in the unstable air mass and small hail also occurred with a cloud pattern that changed very frequently. The launched radio sounding suggested a snowfall line of 600 to 700 m and the lowest temperature of the expedition were recorded here with 8.5°C during a shower.

From 31 January, the high-pressure zone over the Balkans and the low-pressure zone near Cyprus weakened and the differences in air pressure over the eastern Mediterranean decreased. The air mass also stabilised and warmed up again. In the Ionian Sea, the influencing pressure systems were only weak for the last few days of the expedition. The winds came most of the time from northwest to northeast with 2 to rarely 5 Bft and the waves were also only slightly pronounced. In the morning hours of 6 February, Meteor arrived in Catania in sunshine and light winds.

7 Station List M197

7.1 Overall Station List

EM122= Deep-sea Multibeam Echosoundser; ADCP= Acoustic Doppler Current Profiler (75 or 38 kHz); PS= Parasound; UAS= underway air sampling; CTD= Meteor CTD; CTD-UC= CTD Ultra Clean; ISC= In situ Camera (PELAGIOS); TV MUC= Video Multicorer; WP2= WP2 plankton net; WP3= WP3 plankton net; MSN= Multinet; Pump= tow-fish; ISP= in situ pumps.

Station	Device Operation	Device Shortname	Event date/time	Latitude (N)	Longitude (E)	Seafloor depth (m)
Otation	M197 0 Underway-	Onormanic		34°	032°	(11)
0	3	PS	06/01/2024 12:06	17.006'	41.414'	
	M197_0_Underway-			34°	032°	
0	5	UAS	06/01/2024 12:06	17.006'	41.414'	
0	M197_0_Underway-	FN (400	00/04/0004 40 00	34°	032°	
0	1 M107 0 Underwow	EM122	06/01/2024 12:06	17.006' 34°	41.414' 032°	
0	M197_0_Underway-	VMADCP 75kHz	06/01/2024 12:06	34 17.006'	41.414'	
0	M197_0_Underway-		00/01/2024 12:00	34°	032°	
0	2	VMADCP 38kHz	06/01/2024 12:06	17.006'	41.414'	
	M197_0_Underway-	—		34°	032°	
0	3	PS	06/01/2024 14:25	03.146'	41.167'	2519
	M197_0_Underway-			34°	032°	
0	4	VMADCP_75kHz	06/01/2024 14:25	03.146'	41.167'	2519
0	M197_0_Underway-	UAS	06/01/2024 14:25	34°	032°	2510
0	5 M197_0_Underway-	UAS	06/01/2024 14:25	03.145' 34°	41.167' 032°	2519
0		EM122	06/01/2024 14:25	03.134'	41.167'	2519
	M197 0 Underway-		00/01/202111.20	34°	032°	2010
0	2	VMADCP 38kHz	06/01/2024 14:25	03.121'	41.167'	2519
	M197_0_Underway-			33°	032°	
0	1	EM122	06/01/2024 18:36	26.441'	26.254'	1598
	M197_0_Underway-			33°	032°	
0	2	VMADCP_38kHz	06/01/2024 18:36	26.428'	26.245'	1600
0	M197_0_Underway-	PS	06/01/2024 19:26	33°	032° 26.239'	1599
0	M197 0 Underway-	P0	06/01/2024 18:36	26.417' 33°	032°	1599
0	4	VMADCP 75kHz	06/01/2024 18:36	26.403'	26.230'	1599
•	M197 0 Underway-			33°	032°	
0	5 5	UAS	06/01/2024 18:36	26.373'	26.210'	1606
	M197_0_Underway-			33°	032°	
0	5	UAS	08/01/2024 20:14	30.546'	17.455'	
0	M197_0_Underway-	50	00/04/0004 00 44	33°	032°	
0	3	PS	08/01/2024 20:14	30.546'	17.455'	
0	M197_0_Underway-	EM122	08/01/2024 20:15	33° 30.545'	032° 17.456'	
0	M197_0_Underway-		00/01/2024 20.15	30.545 33°	032°	
0	5	UAS	08/01/2024 21:04	35.787'	14.514'	
5	M197_0_Underway-			33°	032°	
0	3	PS	08/01/2024 21:05	35.828'	14.501'	
	M197_0_Underway-			33°	032°	
0	1	EM122	08/01/2024 21:05	35.849'	14.497'	
-	M197_0_Underway-			33°	032°	
0	1	EM122	10/01/2024 19:44	45.991'	20.361'	

1	M197_0_Underway-			33°	032°	1
-	5	UAS	10/01/2024 19:44	45.991'	20.387'	
	M197 0 Underway-	0/10	10/01/2021 10:11	33°	032°	
-	3	PS	10/01/2024 19:44	45.990'	20.513'	
	M197_0_Underway-			33°	032°	
	3	PS	10/01/2024 20:19	43.441'	25.451'	
	M197 0 Underway-			33°	032°	
	5	UAS	10/01/2024 20:19	43.440'	25.467'	
	M197 0 Underway-			33°	032°	
0	1	EM122	10/01/2024 20:19	43.439'	25.481'	
	M197_0_Underway-			33°	032°	
-	3	PS	10/01/2024 21:36	40.606'	33.503'	1802
	M197_0_Underway-			33°	032°	
0	1	EM122	10/01/2024 21:36	40.579'	33.554'	1802
	M197 0 Underway-			33°	032°	
-	5	UAS	10/01/2024 21:36	40.570'	33.571'	1802
	M197_0_Underway-	0.10		33°	033°	
0	1	EM122	11/01/2024 03:00	20.573'	16.619'	
	M197 0 Underway-	······		33°	033°	
0	3	PS	11/01/2024 03:00	20.573'	16.638'	
	M197 0 Underway-		1 1/0 1/202 1 00100	33°	033°	
	5	UAS	11/01/2024 03:00	20.573'	16.659'	
	M197 0 Underway-	6/10	1 1/0 1/2021 00:00	33°	033°	
	5	UAS	11/01/2024 23:12	24.545'	30.382'	1881
	M197 0 Underway-	0/10	11/01/2024 20.12	33°	033°	1001
0	1	EM122	11/01/2024 23:12	24.545'	30.382'	1881
	M197 0 Underway-		11/01/2024 20.12	33°	033°	1001
-	3	PS	11/01/2024 23:12	24.545'	30.382'	1881
	M197_0_Underway-	10	11/01/2024 23.12	33°	033°	1001
0	5	UAS	12/01/2024 00:48	35.293'	43.594'	2060
_	M197 0 Underway-	040	12/01/2024 00.40	33°	033°	2000
0	1	EM122	12/01/2024 00:48	35.293'	43.594'	2060
	M197 0 Underway-		12/01/2024 00.40	33°	43.394 033°	2000
0	viii 87_0_Oliuei way-	PS	12/01/2024 00:48	35.293'	43.594'	2060
_	M197 0 Underway-	го	12/01/2024 00.40	33°	43.394 033°	2000
0	1 vi 197_0_01derway-	EM122	12/01/2024 22:00	33 40.826'	43.993'	2135
-	M197 0 Underway-		12/01/2024 22.00	40.820 33°	43.995 033°	2155
	· · · ·	PS	12/01/2024 22:00	40.826'	43.993'	2135
	3 M107 0 Underwow	FO	12/01/2024 22.00	40.820 33°		2135
	M197_0_Underway-	UAS	12/01/2024 22:00	33 40.826'	033° 43.993'	2135
	5 M107 0 Undonwov	UNG	12/01/2024 22.00	40.826 33°	43.993 032°	2100
	M197_0_Underway-	1145	13/01/2024 06:00			
	5 M107 0 Underwov	UAS	13/01/2024 06:00	39.499' 33°	32.850'	
	M197_0_Underway-		12/01/2024 06:00		032°	
0	M107 0 Underson	EM122	13/01/2024 06:00	39.499'	32.850'	
	M197_0_Underway-	De	12/01/2024 06:00	33° 20.400'	032°	
0	J M107 0 United at	PS	13/01/2024 06:00	39.499'	32.850'	
	M197_0_Underway-	De	12/01/2024 22:42	33° 43 108'	032°	
	3 M107 0 Underson	PS	13/01/2024 22:42	43.198'	32.420'	
	M197_0_Underway-		40/04/0004 00 40	33°	032°	
0	1	EM122	13/01/2024 22:42	43.198'	32.420'	
-	M197_0_Underway-		40/04/0004 00 10	33°	032°	
0	5	UAS	13/01/2024 22:42	43.198'	32.420'	
	M197_0_Underway-			34°	032°	
0	5	UAS	14/01/2024 01:00	02.670'	40.871'	
	M197_0_Underway-			34°	032°	
0	1	EM122	14/01/2024 01:00	02.670'	40.871'	
	M197_0_Underway-			34°	032°	
0	3	PS	14/01/2024 01:00	02.670'	40.871'	

		1	i		1	
	M197_0_Underway-	50	4 4 10 4 10 0 0 4 4 7 4 0	34°	032°	0554
0	3	PS	14/01/2024 17:12	02.646'	38.494'	2551
	M197_0_Underway-		44/04/0004 47 40	34°	032°	0554
0	5	UAS	14/01/2024 17:12	02.646'	38.494'	2551
	M197_0_Underway-	FN 4400	44/04/0004 47 40	34°	032°	0554
0	1	EM122	14/01/2024 17:12	02.646'	38.494'	2551
	M197_0_Underway-			33°	032°	0074
0	5	UAS	14/01/2024 18:46	52.313'	24.254'	2274
	M197_0_Underway-	50	44/04/0004 40 40	33°	032°	0070
0	3	PS	14/01/2024 18:46	52.302'	24.239'	2276
	M197_0_Underway-			33°	032°	0004
0	1	EM122	14/01/2024 18:46	52.283'	24.213'	2281
	M197_0_Underway-			33°	031°	
0	5	UAS	14/01/2024 21:30	47.353'	55.443'	
	M197_0_Underway-			33°	031°	
0	3	PS	14/01/2024 21:30	47.354'	55.413'	
	M197_0_Underway-			33°	031°	
0	1	EM122	14/01/2024 21:30	47.355'	55.376'	
_	M197_0_Underway-	50		33°	030°	
0	3	PS	15/01/2024 04:11	49.884'	34.803'	
_	M197_0_Underway-			33°	030°	
0	1	EM122	15/01/2024 04:11	49.884'	34.803'	
	M197_0_Underway-			33°	030°	
0	5	UAS	15/01/2024 04:11	49.884'	34.803'	
	M197_0_Underway-			33°	030°	
0	3	PS	15/01/2024 19:15	47.997'	10.878'	2916
	M197_0_Underway-			33°	030°	
0	5	UAS	15/01/2024 19:15	47.997'	10.851'	2916
	M197_0_Underway-			33°	030°	
0	1	EM122	15/01/2024 19:16	47.995'	10.797'	2916
	M197_0_Underway-			33°	027°	
0	5	UAS	16/01/2024 11:42	46.869'	42.449'	
	M197_0_Underway-			33°	027°	
0	1	EM122	16/01/2024 11:42	46.869'	42.449'	
	M197_0_Underway-			33°	027°	
0	3	PS	16/01/2024 11:42	46.869'	42.449'	
-	M197_0_Underway-			34°	025°	
0	2	VMADCP_38kHz	19/01/2024 17:35	15.491'	29.722'	3941
_	M197_0_Underway-			34°	025°	
0	4	VMADCP_75kHz	19/01/2024 17:35	15.491'	29.722'	3937
_	M197_0_Underway-			37°	018°	
0	4	VMADCP_75kHz	04/02/2024 21:00	29.794'	22.933'	
	M197_0_Underway-			37°	018°	
0	3	PS	04/02/2024 21:00	29.794'	22.933'	
	M197_0_Underway-			37°	018°	
0	2	VMADCP_38kHz	04/02/2024 21:00	29.794'	22.933'	
	M197_0_Underway-			37°	018°	
0	1	EM122	04/02/2024 21:00	29.794'	22.933'	
	M197_0_Underway-			37°	018°	
0	5	UAS	04/02/2024 21:00	29.794'	22.933'	
	M197_0_Underway-			33°	032°	
0	6	Pump	06/01/2024 18:36	26.443'	26.255'	1598
1	M197_0_Underway-			33°	032°	
0	6	Pump	08/01/2024 20:14	30.546'	17.454'	
	M197_0_Underway-			33°	032°	
0	6	Pump	08/01/2024 21:04	35.821'	14.503'	
	M197_0_Underway-			33°	032°	
0	6	Pump	10/01/2024 19:44	45.990'	20.448'	

	M197 0 Underway-		1	33°	032°	
0	6	Pump	10/01/2024 20:19	43.446'	25.425'	
	M197_0_Underway-	·		33°	032°	
0	6	Pump	10/01/2024 21:36	40.595'	33.527'	1802
	M197_0_Underway-			33°	033°	
0	6	Pump	11/01/2024 03:00	20.573'	16.695'	
	M197_0_Underway-			33°	033°	
0	6	Pump	11/01/2024 23:12	24.545'	30.382'	1881
	M197_0_Underway-	_		33°	033°	
0	6	Pump	12/01/2024 00:48	35.295'	43.596'	2060
0	M197_0_Underway-	_	40/04/0004 00 00	33°	033°	0405
0	6 M107 0 Undersee	Pump	12/01/2024 22:00	40.826'	43.993'	2135
0	M197_0_Underway-	Dump	12/01/2024 06:00	33°	032°	
0	6 M197_0_Underway-	Pump	13/01/2024 06:00	39.499' 33°	32.850' 032°	
0	6	Pump	13/01/2024 22:42	43.200'	32.423'	
	M197 0 Underway-		13/01/2024 22.42	34°	032°	
0	6	Pump	14/01/2024 01:00	02.671'	40.871'	
	M197 0 Underway-		1 1/0 1/2021 01:00	34°	032°	
0	6	Pump	14/01/2024 17:12	02.644'	38.492'	2551
	M197 0 Underway-			33°	032°	
0	6	Pump	14/01/2024 18:45	52.341'	24.292'	
	M197 0 Underway-	'		33°	031°	
0	6	Pump	14/01/2024 21:30	47.357'	55.326'	
	M197_0_Underway-			33°	030°	
0	6	Pump	15/01/2024 04:11	49.883'	34.799'	
	M197_0_Underway-			33°	030°	
0	6	Pump	15/01/2024 19:15	47.997'	10.891'	2916
	M197_0_Underway-			33°	027°	
0	6	Pump	16/01/2024 11:42	46.869'	42.448'	
	M197_0_Underway-	_	0.4/00/0004.07.00	37°	018°	
0	6	Pump	04/02/2024 07:32	29.820'	43.737'	3308
		OTD	07/04/0004 04 00	33°	032°	1000
1	M197_1-1	CTD	07/01/2024 04:03	21.947'	23.153'	1902
1	M197 1-1	СТД	07/01/2024 04:54	33° 21.956'	032° 23.154'	1899
1	101197_1-1		07/01/2024 04.34	33°	032°	1099
1	M197 1-1	СТД	07/01/2024 05:31	21.956'	23.154'	1899
-	W107_11	010	01/01/2024 00:01	33°	032°	1000
1	M197 1-2	CTD-UC	07/01/2024 05:44	21.956'	23.154'	1898
	······	<u> </u>		33°	032°	
1	M197 1-2	CTD-UC	07/01/2024 06:36	21.956'	23.154'	1899
	_			33°	032°	
1	M197_1-2	CTD-UC	07/01/2024 07:27	21.956'	23.154'	1899
				33°	032°	
1	M197_1-3	CTD	07/01/2024 07:38	21.956'	23.153'	1899
				33°	032°	
1	M197_1-3	CTD	07/01/2024 07:45	21.956'	23.154'	1899
	<u>.</u>			33°	032°	
1	M197_1-3	CTD	07/01/2024 07:56	21.956'	23.154'	1952
				33°	032°	4
1	M197_1-4	ISC	07/01/2024 08:04	21.956'	23.154'	1952
	M407 4 4		07/04/0004 40 44	33°	032°	4070
1	M197_1-4	ISC	07/01/2024 10:44	21.666'	25.110'	1872
4	M107 1 /		07/01/2024 44-22	33°	032°	1000
1	M197_1-4	ISC	07/01/2024 11:20	21.645' 33°	25.248' 032°	1869
1	M197 1-5	ISP	07/01/2024 11:53	21.944'	23.135'	1953
I	WI 07_1-0		01/01/2024 11:00	21.344	20.100	1900

1 M197_1-5 ISP 07/01/2024 12:07 21.963' 23.154' 1 M197_1-5 ISP 07/01/2024 12:15 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:15 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:20 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:20 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:26 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:26 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:41 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155'	1951 1953 1953 1952 1951 1952 1954 1954
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1953 1952 1951 1952 1952 1954
1 M197_1-5 ISP 07/01/2024 12:20 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:26 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:26 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:41 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 33° 032° 33° 032° 33° 032° 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 33° 032° 33° 032° 33° 032° 1 M197_1-5	1953 1952 1951 1952 1952 1954
1 M197_1-5 ISP 07/01/2024 12:20 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:26 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:26 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:41 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 33° 032° 33° 032° 33° 032° 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 <	1952 1951 1952 1954
1 M197_1-5 ISP 07/01/2024 12:26 33° 032° 1 M197_1-5 ISP 07/01/2024 12:26 21.963' 23.155' 33° 032° 33° 032° 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:41 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 33° 032° 33° 032° 33° 032° 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	1952 1951 1952 1954
1 M197_1-5 ISP 07/01/2024 12:26 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:41 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	1951 1952 1954
1 M197_1-5 ISP 07/01/2024 12:38 21.962' 23.155' 1 M197_1-5 ISP 07/01/2024 12:41 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:41 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	1952 1954
1 M197_1-5 ISP 07/01/2024 12:41 33° 032° 1 M197_1-5 ISP 07/01/2024 12:41 21.963' 23.155' 33° 032° 33° 032° 33° 032° 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 33° 032° 33° 032° 33° 032° 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153'	1952 1954
1 M197_1-5 ISP 07/01/2024 12:41 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153'	1954
1 M197_1-5 ISP 07/01/2024 12:56 33° 032° 1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	1954
1 M197_1-5 ISP 07/01/2024 12:56 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153'	
1 M197_1-5 ISP 07/01/2024 13:00 33° 032° 1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	
1 M197_1-5 ISP 07/01/2024 13:00 21.963' 23.155' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	1950
1 M197_1-5 ISP 07/01/2024 15:35 33° 032° 1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	1950
1 M197_1-5 ISP 07/01/2024 15:35 21.961' 23.153' 33° 032° 1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	
33° 032° 1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	1953
1 M197_1-5 ISP 07/01/2024 15:38 21.961' 23.153'	1955
	1951
33° 032°	1331
1 M197 1-5 ISP 07/01/2024 15:42 21.961' 23.150'	1950
33° 032°	1000
1 M197 1-5 ISP 07/01/2024 15:45 21.962' 23.148'	1954
33° 032°	
1 M197 1-5 ISP 07/01/2024 15:48 21.961' 23.149'	1952
1 M197_1-5 ISP 07/01/2024 15:52 21.962' 23.150'	1951
33° 032°	
1 M197_1-5 ISP 07/01/2024 16:02 21.962' 23.151'	1951
33° 032°	
1 M197_1-5 ISP 07/01/2024 16:04 21.962' 23.150'	1951
	1050
1 M197_1-6 TVMUC 07/01/2024 16:20 21.961' 23.151'	1952
1 M197 1-6 TVMUC 07/01/2024 16:58 21.947' 23.150'	1052
1 M197_1-6 TVMUC 07/01/2024 16:58 21.947' 23.150' 33° 032°	1953
1 M197_1-6 TVMUC 07/01/2024 17:38 21.956' 23.148'	1953
33° 032°	1000
1 M197 1-7 WP2 07/01/2024 18:04 21.983' 23.149'	1952
33° 032°	1002
1 M197 1-7 WP2 07/01/2024 18:16 21.973' 23.149'	1953
1 M197_1-7 WP2 07/01/2024 18:27 21.966' 23.148'	1951
1 M197_1-8 WP3 07/01/2024 18:32 21.967' 23.143'	1950
33° 032°	
1 M197_1-8 WP3 07/01/2024 18:50 21.942' 23.119'	1953
33° 032°	
1 M197_1-8 WP3 07/01/2024 19:23 21.944' 23.120'	1951
33° 032°	4054
1 M197_1-9 MSN 07/01/2024 19:35 21.959' 23.135'	1954
1 M197 1-9 MSN 07/01/2024 20:00 21.967' 23.141'	1951
<u> </u>	1951
1 M197 1-9 MSN 07/01/2024 20:28 21.963' 23.137'	1954
33° 032°	
1 M197_1-10 ISC 07/01/2024 20:46 21.932' 23.111'	1951

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1 1				33°	032°	
1	M197_1-10	ISC	07/01/2024 23:18	19.370'	20.906'	1619
				33°	032°	1000
1	M197_1-10	ISC	07/01/2024 23:59	19.239' 33°	20.796' 032°	1628
1	M197 1-11	MSN	08/01/2024 00:44	33 21.946'	23.156'	1950
			00/01/2021 00:11	33°	032°	1000
1	M197_1-11	MSN	08/01/2024 01:10	21.969'	23.163'	1951
	M407 4 44	MON	00/04/0004 04:00	33°	032°	1050
1	M197_1-11	MSN	08/01/2024 01:39	21.998' 33°	23.184' 032°	1952
2	M197 2-1	CTD	08/01/2024 07:01	30.579'	17.429'	2076
				33°	032°	
2	M197_2-1	CTD	08/01/2024 07:44	30.579'	17.430'	2075
2	M197 2-1	CTD	08/01/2024 08:24	33° 30.580'	032° 17.426'	2076
2	WI197_2-1		00/01/2024 00.24	33°	032°	2070
2	M197_2-2	CTD-UC	08/01/2024 08:30	30.579'	17.430'	2076
				33°	032°	
2	M197_2-2	CTD-UC	08/01/2024 09:21	30.580' 33°	17.429' 032°	2074
2	M197 2-2	CTD-UC	08/01/2024 10:08	30.580'	17.430'	2074
		012 00		33°	032°	2011
2	M197_2-3	CTD	08/01/2024 10:12	30.579'	17.429'	2074
0	M407 0 0	OTD	00/04/0004 40:00	33°	032°	0070
2	M197_2-3	CTD	08/01/2024 10:20	30.578' 33°	17.429' 032°	2076
2	M197_2-3	CTD	08/01/2024 10:31	30.579'	17.429'	2075
_				33°	032°	
2	M197_2-4	ISP	08/01/2024 12:00	30.579' 33°	17.429' 032°	2074
2	M197 2-4	ISP	08/01/2024 12:11	30.579'	17.429'	2077
				33°	032°	
2	M197_2-4	ISP	08/01/2024 12:20	30.580'	17.429'	2074
2	M197 2-4	ISP	08/01/2024 12:26	33° 30.579'	032° 17.429'	2081
2	WI137_2-4	101	00/01/2024 12:20	33°	032°	2001
2	M197_2-4	ISP	08/01/2024 12:30	30.580'	17.430'	2074
0	N407 0 4	100	00/04/0004 40 05	33°	032°	0075
2	M197_2-4	ISP	08/01/2024 12:35	30.580' 33°	17.429' 032°	2075
2	M197 2-4	ISP	08/01/2024 12:39	30.579'	17.430'	2075
				33°	032°	
2	M197_2-4	ISP	08/01/2024 12:42	30.580'	17.429'	2074
2	M197 2-4	ISP	08/01/2024 12:50	33° 30.579'	032° 17.430'	2073
			00/01/2021 12:00	33°	032°	2010
2	M197_2-4	ISP	08/01/2024 12:52	30.579'	17.429'	2075
2	M407 0 4		00/01/2024 15:20	33°	032°	2074
2	M197_2-4	ISP	08/01/2024 15:30	30.576' 33°	17.449' 032°	2071
2	M197_2-4	ISP	08/01/2024 15:32	30.575'	17.453'	2071
_				33°	032°	
2	M197_2-4	ISP	08/01/2024 15:35	30.575' 33°	17.447'	2072
2	M197 2-4	ISP	08/01/2024 15:38	33° 30.577'	032° 17.448'	2072
<u> </u>				33°	032°	2012
2	M197_2-4	ISP	08/01/2024 15:40	30.574'	17.454'	2074

		1		33°	032°	
2	M197_2-4	ISP	08/01/2024 15:43	30.573'	17.460'	2071
				33°	032°	
2	M197_2-4	ISP	08/01/2024 15:48	30.574'	17.455'	2073
	N4407 0 4	100		33°	032°	0070
2	M197_2-4	ISP	08/01/2024 15:54	30.580' 33°	17.433' 032°	2076
2	M197 2-4	ISP	08/01/2024 16:01	33° 30.578'	17.443'	2074
Z	101137_2-4		00/01/2024 10:01	33°	032°	2074
2	M197 2-5	TVMUC	08/01/2024 16:15	30.584'	17.410'	2078
				33°	032°	
2	M197_2-5	TVMUC	08/01/2024 16:54	30.582'	17.422'	2076
				33°	032°	
2	M197_2-5	TVMUC	08/01/2024 17:34	30.578'	17.439'	2076
2	M107 2 6	WP2	00/01/2024 17:40	33° 20 591'	032°	2075
Z	M197_2-6	VVPZ	08/01/2024 17:48	30.581' 33°	17.429' 032°	2075
2	M197 2-6	WP2	08/01/2024 17:58	30.581'	17.430'	2075
	<u> </u>		00/01/2021 11:00	33°	032°	2010
2	M197_2-6	WP2	08/01/2024 18:08	30.577'	17.431'	2077
				33°	032°	
2	M197_2-7	WP3	08/01/2024 18:20	30.579'	17.426'	2075
				33°	032°	
2	M197_2-7	WP3	08/01/2024 18:37	30.569'	17.416'	2075
0	M407 0 7		00/04/0004 40-44	33°	032°	0074
2	M197_2-7	WP3	08/01/2024 19:11	30.588' 33°	17.437' 032°	2071
2	M197 2-8	MSN	08/01/2024 19:21	30.582'	17.433'	2068
			00/01/2021 10:21	33°	032°	2000
2	M197 2-8	MSN	08/01/2024 19:46	30.560'	17.443'	2073
				33°	032°	
2	M197_2-8	MSN	08/01/2024 20:13	30.546'	17.454'	
	N407 0 4	OTD	00/04/0004 04 00	34°	032°	0500
3	M197_3-1	CTD	09/01/2024 04:03	08.055' 34°	22.286' 032°	2539
3	M197 3-1	CTD	09/01/2024 04:54	34 08.116'	22.223'	2537
0			00/01/2024 04:04	34°	032°	2001
3	M197_3-1	CTD	09/01/2024 05:40	08.175'	22.161'	2539
				34°	032°	
3	M197_3-2	CTD-UC	09/01/2024 05:45	08.175'	22.163'	2538
	M407 0 C		00/04/0004 00 10	34°	032°	0504
3	M197_3-2	CTD-UC	09/01/2024 06:49	08.175' 34°	22.162' 032°	2534
3	M197 3-2	CTD-UC	09/01/2024 07:47	34° 08.174'	22.162'	2536
	WI 107_0-2		00/01/2024 01.41	34°	032°	2000
3	M197 3-3	CTD	09/01/2024 07:54	08.176'	22.162'	2536
				34°	032°	
3	M197_3-3	CTD	09/01/2024 08:01	08.174'	22.162'	2536
_				34°	032°	
3	M197_3-3	CTD	09/01/2024 08:11	08.173'	22.161'	2538
	M107 2 4		00/01/2024 00:00	34°	032°	0504
3	M197_3-4	ISC	09/01/2024 08:22	08.176' 34°	22.161' 032°	2534
3	M197 3-4	ISC	09/01/2024 10:39	34 08.241'	22.288'	2548
			30/0 H/L024 10.00	34°	032°	2070
3	M197 3-4	ISC	09/01/2024 11:23	08.205'	22.234'	2533
				34°	032°	
3	M197_3-5	ISP	09/01/2024 11:38	08.175'	22.164'	2535

				34°	032°	
3	M197_3-5	ISP	09/01/2024 12:02	08.174'	22.164'	2537
				34°	032°	
3	M197_3-5	ISP	09/01/2024 12:09	08.175' 34°	22.164'	2535
3	M197 3-5	ISP	09/01/2024 12:14	34° 08.174'	032° 22.164'	2538
5	WI97_3-3	101	09/01/2024 12.14	34°	032°	2000
3	M197 3-5	ISP	09/01/2024 12:22	08.174'	22.164'	2538
				34°	032°	
3	M197_3-5	ISP	09/01/2024 12:25	08.174'	22.164'	2537
0			00/04/0004 40:00	34°	032°	0500
3	M197_3-5	ISP	09/01/2024 12:30	08.174' 34°	22.164' 032°	2532
3	M197 3-5	ISP	09/01/2024 12:33	08.174'	22.164'	2539
				34°	032°	
3	M197_3-5	ISP	09/01/2024 12:37	08.175'	22.163'	2536
				34°	032°	
3	M197_3-5	ISP	09/01/2024 12:53	08.174'	22.163'	2535
3	M197 3-5	ISP	09/01/2024 15:36	34° 08.174'	032° 22.164'	2535
5	W197_55		09/01/2024 13:30	34°	032°	2000
3	M197 3-5	ISP	09/01/2024 15:38	08.174'	22.165'	2535
				34°	032°	
3	M197_3-5	ISP	09/01/2024 15:39	08.174'	22.164'	2535
		105	00/04/0004 45 44	34°	032°	0500
3	M197_3-5	ISP	09/01/2024 15:41	08.174' 34°	22.163' 032°	2536
3	M197 3-5	ISP	09/01/2024 15:44	08.175'	22.164'	2536
				34°	032°	2000
3	M197_3-5	ISP	09/01/2024 15:47	08.176'	22.164'	2536
				34°	032°	
3	M197_3-5	ISP	09/01/2024 15:50	08.175'	22.165'	2543
3	M197 3-5	ISP	09/01/2024 15:56	34° 08.176'	032° 22.164'	2534
	<u></u>		03/01/2024 13:30	34°	032°	2004
3	M197_3-5	ISP	09/01/2024 15:58	08.176'	22.163'	2538
				34°	032°	
3	M197_3-6	TVMUC	09/01/2024 16:12		22.164'	2536
3	M197 3-6	TVMUC	09/01/2024 17:01	34° 08.174'	032° 22.164'	2535
	W197_3-0	TVIMOC	09/01/2024 17.01	34°	032°	2000
3	M197_3-6	TVMUC	09/01/2024 17:48	08.173'	22.164'	2546
				34°	032°	
3	M197_3-7	WP2	09/01/2024 18:07	08.177'	22.165'	2537
	M107 0 7		00/01/0004 40-44	34°	032°	0544
3	M197_3-7	WP2	09/01/2024 18:14	08.174' 34°	22.164' 032°	2544
3	M197 3-7	WP2	09/01/2024 18:23	08.173'	22.164'	2534
				34°	032°	•
3	M197_3-8	WP3	09/01/2024 18:28	08.173'	22.164'	2536
-				34°	032°	
3	M197_3-8	WP3	09/01/2024 18:35	08.175'	22.164'	2535
3	M197 3-8	WP3	09/01/2024 18:43	34° 08.177'	032° 22.165'	2534
			50,01,2027 10. 4 0	34°	032°	2004
3	M197_3-9	MSN	09/01/2024 18:51	08.175'	22.164'	2535
				34°	032°	
3	M197_3-9	MSN	09/01/2024 19:16	08.174'	22.165'	2531

	1	1	1	34°	032°	
3	M197 3-9	MSN	09/01/2024 19:42	08.176'	22.164'	2538
				34°	032°	
3	M197_3-10	ISC	09/01/2024 20:02	08.173'	22.164'	2534
				34°	032°	
3	M197_3-10	ISC	09/01/2024 22:20	07.749'	21.159'	2468
0	14407 0 40	100	00/04/0004 00 05	34°	032°	0.400
3	M197_3-10	ISC	09/01/2024 23:05	07.711' 33°	21.168' 032°	2480
4	M197 4-1	СТД	10/01/2024 05:21	33 45.924'	12.249'	2557
4	M197_4-1		10/01/2024 03.21	43.924 33°	032°	2001
4	M197 4-1	CTD	10/01/2024 06:12	45.919'	12.250'	2636
				33°	032°	
4	M197_4-1	CTD	10/01/2024 07:01	45.917'	12.249'	2632
				33°	032°	
4	M197_4-2	CTD-UC	10/01/2024 07:06	45.916'	12.249'	2629
				33°	032°	
4	M197_4-2	CTD-UC	10/01/2024 08:10	45.918'	12.249'	2630
4	M407 4 0		10/01/2024 00:07	33°	032°	2626
4	M197_4-2	CTD-UC	10/01/2024 09:07	45.918' 33°	12.249' 032°	2626
4	M197 4-3	CTD	10/01/2024 09:11	45.919'	12.250'	2633
T	MITO7_+-0		10/01/2024 03.11	33°	032°	2000
4	M197 4-3	CTD	10/01/2024 09:18	45.919'	12.251'	2866
				33°	032°	
4	M197_4-3	CTD	10/01/2024 09:27	45.919'	12.250'	2630
				33°	032°	
4	M197_4-4	TVMUC	10/01/2024 09:43	45.919'	12.250'	2630
				33°	032°	
4	M197_4-4	TVMUC	10/01/2024 10:30	45.919'	12.250'	2631
4	N4407 4 4	T) (1,41,10	10/01/0001 11 10	33°	032°	0004
4	M197_4-4	TVMUC	10/01/2024 11:16	45.920' 33°	12.249' 032°	2624
4	M197 4-5	ISP	10/01/2024 11:30	33 45.921'	12.250'	2630
4	M197_4-5		10/01/2024 11.30	33°	032°	2030
4	M197 4-5	ISP	10/01/2024 11:44	45.920'	12.251'	2625
-				33°	032°	
4	M197_4-5	ISP	10/01/2024 11:52	45.920'	12.252'	2627
				33°	032°	
4	M197_4-5	ISP	10/01/2024 11:59	45.920'	12.252'	2624
		105	40/04/0004 40 65	33°	032°	0001
4	M197_4-5	ISP	10/01/2024 12:05	45.919'	12.249'	2631
4	M197 4-5	ISP	10/01/2024 12:10	33° 45.920'	032° 12.251'	2630
4	WITUT_4-0		10/01/2024 12.10	45.920 33°	032°	2030
4	M197 4-5	ISP	10/01/2024 12:13	45.918'	12.250'	2630
				33°	032°	
4	M197_4-5	ISP	10/01/2024 12:16	45.921'	12.250'	2626
	_			33°	032°	
4	M197_4-5	ISP	10/01/2024 12:20	45.920'	12.249'	2624
				33°	032°	
4	M197_4-5	ISP	10/01/2024 12:23	45.920'	12.252'	2627
4			10/04/0004 40:05	33°	032°	0600
4	M197_4-5	ISP	10/01/2024 12:25	45.919' 33°	12.250' 032°	2622
4	M197 4-5	ISP	10/01/2024 15:09	33 45.919'	12.251'	2633
4	<u>WIU_</u> T-U		10/01/2024 13.09			2000
4	M197 4-5	ISP	10/01/2024 15:11			2630
4	M197_4-5	ISP	10/01/2024 15:11	33° 45.920'	032° 12.251'	263

				33°	032°	
4	M197_4-5	ISP	10/01/2024 15:13	45.920'	12.250'	2628
		105		33°	032°	
4	M197_4-5	ISP	10/01/2024 15:15	45.921' 33°	12.249' 032°	2628
4	M197 4-5	ISP	10/01/2024 15:17	33 45.921'	12.249'	2629
	MI107_4-0		10/01/2024 10:17	33°	032°	2023
4	M197 4-5	ISP	10/01/2024 15:20	45.919'	12.251'	2637
				33°	032°	
4	M197_4-5	ISP	10/01/2024 15:25	45.920'	12.249'	2626
4	M407 4 E		10/01/2024 15:22	33°	032°	0005
4	M197_4-5	ISP	10/01/2024 15:32	45.920' 33°	12.251' 032°	2625
4	M197 4-5	ISP	10/01/2024 15:37	45.919'	12.249'	2617
				33°	032°	
4	M197_4-5	ISP	10/01/2024 15:40	45.920'	12.250'	2629
				33°	032°	
4	M197_4-6	WP2	10/01/2024 16:17	45.919'	12.249'	2630
4	M197 4-6	WP2	10/01/2024 16:24	33° 45.941'	032° 12.265'	2636
4	M197_4-0	VVFZ	10/01/2024 10.24	33°	032°	2030
4	M197 4-6	WP2	10/01/2024 16:33	45.940'	12.266'	2868
				33°	032°	
4	M197_4-7	WP3	10/01/2024 16:37	45.940'	12.263'	2632
				33°	032°	0004
4	M197_4-7	WP3	10/01/2024 16:53	45.939' 33°	12.265' 032°	2621
4	M197 4-7	WP3	10/01/2024 17:27	33 45.930'	12.260'	2626
•				33°	032°	2020
4	M197_4-8	MSN	10/01/2024 17:38	45.931'	12.263'	2624
				33°	032°	
4	M197_4-8	MSN	10/01/2024 18:04	45.918'	12.258'	2623
4	M197 4-8	MSN	10/01/2024 18:30	33° 45.905'	032° 12.308'	2628
4	M197_4-0	IVISIN	10/01/2024 10.30	43.903 33°	033°	2020
5	M197 5-1	CTD	11/01/2024 04:14	20.847'	23.225'	1866
				33°	033°	
5	M197_5-1	CTD	11/01/2024 04:55	20.831'	23.264'	1864
-		OTD	44/04/0004 05:00	33°	033°	1000
5	M197_5-1	CTD	11/01/2024 05:30	20.833' 33°	23.264' 033°	1863
5	M197 5-2	CTD-UC	11/01/2024 05:38	20.834'	23.263'	1864
	<u> </u>			33°	033°	
5	M197_5-2	CTD-UC	11/01/2024 06:24	20.832'	23.261'	1865
				33°	033°	1000
5	M197_5-2	CTD-UC	11/01/2024 07:14	20.832' 33°	23.262' 033°	1866
5	M197 5-3	СТД	11/01/2024 07:20	33° 20.832'	033° 23.263'	1863
5	<u></u> 0-0		11/01/2024 01.20	33°	033°	1000
5	M197_5-3	CTD	11/01/2024 07:28	20.833'	23.264'	1864
				33°	033°	
5	M197_5-3	CTD	11/01/2024 07:37	20.832'	23.262'	1867
_			44/04/0004 07:40	33°	033°	1004
5	M197_5-4	ISC	11/01/2024 07:49	20.833' 33°	23.262' 033°	1864
5	M197 5-4	ISC	11/01/2024 10:10	33 21.352'	21.651'	1871
				33°	033°	
5	M197_5-4	ISC	11/01/2024 10:54	21.407'	21.492'	1865

l			1	33°	033°	
5	M197_5-5	ISP	11/01/2024 11:36	20.862'	23.311'	1863
				33°	033°	
5	M197_5-5	ISP	11/01/2024 11:48	20.835'	23.278'	1864
				33°	033°	
5	M197_5-5	ISP	11/01/2024 11:56	20.834'	23.277'	1868
_		105		33°	033°	1000
5	M197_5-5	ISP	11/01/2024 12:01	20.835'	23.279'	1862
5	M197 5-5	ISP	11/01/2024 12:06	33° 20.835'	033° 23.278'	1865
5	<u>MI97_</u> 3-3		11/01/2024 12.00	20.835 33°	033°	1005
5	M197 5-5	ISP	11/01/2024 12:12	20.835'	23.278'	1864
				33°	033°	1001
5	M197 5-5	ISP	11/01/2024 12:16	20.834'	23.277'	1862
				33°	033°	
5	M197_5-5	ISP	11/01/2024 12:19	20.833'	23.279'	1866
				33°	033°	
5	M197_5-5	ISP	11/01/2024 12:22	20.834'	23.279'	1864
_				33°	033°	(0.0-
5	M197_5-5	ISP	11/01/2024 12:25	20.834'	23.278'	1867
F			11/01/2024 12:20	33°	033°	1000
5	M197_5-5	ISP	11/01/2024 12:26	20.835' 33°	23.278' 033°	1862
5	M197 5-5	ISP	11/01/2024 15:10	20.830'	23.306'	1865
	W197_0-0		11/01/2024 13.10	33°	033°	1005
5	M197 5-5	ISP	11/01/2024 15:12	20.830'	23.306'	1865
				33°	033°	1000
5	M197 5-5	ISP	11/01/2024 15:14	20.830'	23.306'	1865
	— — —			33°	033°	
5	M197_5-5	ISP	11/01/2024 15:16	20.830'	23.306'	1864
				33°	033°	
5	M197_5-5	ISP	11/01/2024 15:19	20.829'	23.307'	1864
_		105		33°	033°	1000
5	M197_5-5	ISP	11/01/2024 15:22	20.828'	23.305'	1862
5	M197 5-5	ISP	11/01/2024 15:25	33° 20.829'	033° 23.307'	1865
5	WT97_0-0		11/01/2024 13.23	33°	033°	1005
5	M197 5-5	ISP	11/01/2024 15:32	20.829'	23.306'	1864
				33°	033°	
5	M197_5-5	ISP	11/01/2024 15:38	20.829'	23.306'	1865
				33°	033°	
5	M197_5-5	ISP	11/01/2024 15:40	20.829'	23.305'	1864
_		T A U C		33°	033°	
5	M197_5-6	TVMUC	11/01/2024 15:54	20.830'	23.306'	1864
F	M197 5-6		11/01/2024 16:05	33°	033°	1064
5	0-6_161	TVMUC	11/01/2024 16:05	20.830' 33°	23.307' 033°	1864
5	M197 5-6	TVMUC	11/01/2024 16:16	20.829'	23.306'	1864
		111100	1.1.0 1/2024 10.10	33°	033°	100-7
5	M197 5-6	TVMUC	11/01/2024 16:22	20.828'	23.305'	1864
	_			33°	033°	
5	M197_5-6	TVMUC	11/01/2024 16:30	20.828'	23.307'	1863
				33°	033°	
5	M197_5-6	TVMUC	11/01/2024 16:40	20.827'	23.305'	1863
-			11/01/0004 40 55	33°	033°	4004
5	M197_5-7	WP2	11/01/2024 16:55	20.830' 33°	23.307' 033°	1864
5	M197 5-7	WP2	11/01/2024 17:02	33 20.829'	23.307'	1867
5			11/01/2024 17.02	20.023	20.001	1007

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					33°	033°	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5	M197_5-7	WP2	11/01/2024 17:11	20.831'	23.306'	1864
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	_						
5 M197 5-8 WP3 11/01/2024 17:20 20.829' 23.306' 1865 5 M197 5-8 WP3 11/01/2024 17:29 20.828' 23.307' 1865 5 M197 5-9 MSN 11/01/2024 77:3 033'' 033'' 5 M197 5-9 MSN 11/01/2024 17:30 033'' 1867 5 M197 5-9 MSN 11/01/2024 18:20 033'' 1867 5 M197 5-10 ISC 11/01/2024 18:20 033'' 1867 5 M197 5-10 ISC 11/01/2024 18:30'' 1858 6 M197 6-1 CTD 12/01/2024 03:34'' 034''' 133''' 6 M197 6-1 CTD 12/01/2024 03:32''' 034'''' 134'''' 6 M197 6-2 CTD-UC 12/01/2024 03:32'''' 034''''''' 134'''''' <	5	M197_5-8	WP3	11/01/2024 17:13			1865
5 M197 5-8 WP3 11/01/2024 17.29 20.828' 23.307' 1865 5 M197 5-9 MSN 11/01/2024 17.32 20.829' 23.307' 1865 5 M197 5-9 MSN 11/01/2024 17.37 20.829' 23.307' 1865 5 M197 5-9 MSN 11/01/2024 18.24 20.830' 23.305' 1867 5 M197 5-9 MSN 11/01/2024 18.24 20.830' 23.305' 1867 5 M197 5-10 ISC 11/01/2024 11.55' 21.615' 1857 5 M197 5-10 ISC 11/01/2024 21.157' 21.603'' 1858 6 M197 6-1 CTD 12/01/2024 06.90 9.34'' 034'' 6 M197 6-1 CTD 12/01/2024 06.90 9.155' 2138 6 M197 6-1 CTD 12/01/2024	_						
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6 M197_6-5 ISP 12/01/2024 15:13 03.936' 09.147' 2133 6 M197_6-5 ISP 12/01/2024 15:15 03.937' 09.149' 2134' 6 M197_6-6 WP2 12/01/2024 15:30 03.937' 09.149' 2134' 6 M197_6-6 WP2 12/01/2024 15:30 03.938' 09.121' 2134' 6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.108' 2133' 6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.108' 2133' 6 M197_6-6 WP2 12/01/2024 15:37 03.936' 09.142' 2134' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 16:60 03.941' 09.085' 2134' 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 2134' 6 M197_6-8 MSN 12/01/2024 16:44 03.94	0	W197_0-5	135	12/01/2024 15.05			2130
6 M197_6-5 ISP 12/01/2024 15:15 03.937' 09.149' 2130 6 M197_6-6 WP2 12/01/2024 15:30 03.938' 09.121' 2130 6 M197_6-6 WP2 12/01/2024 15:37 03.938' 09.121' 2130 6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.108' 2133 6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.142' 2130 6 M197_6-6 WP2 12/01/2024 15:44 03.936' 09.142' 2130 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.142' 2130 6 M197_6-7 WP3 12/01/2024 16:60 03.941' 09.085' 2130 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 2130 6 M197_6-8 MSN 12/01/2024 16:39 03.945' 09.062' 2130 6 M197_6-8 MSN 12/01/2024 16:44 03.944'	6	M197 6-5	ISP	12/01/2024 15:13	-		2139
6 M197_6-5 ISP 12/01/2024 15:15 03.937' 09.149' 2130' 6 M197_6-6 WP2 12/01/2024 15:30 03.938' 09.121' 2130' 6 M197_6-6 WP2 12/01/2024 15:37 03.938' 09.121' 2130' 6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.108' 2133' 6 M197_6-6 WP2 12/01/2024 15:37 03.936' 09.142' 2130' 6 M197_6-7 WP3 12/01/2024 15:50 03.936' 09.142' 2130' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 16:39 03.94'' 09.062' 213' 6 M197_6-8 MSN 12/01/2024 16:39 03.94'' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940'	0	<u></u> 00		12/01/2024 10:10			2100
6 M197_6-6 WP2 12/01/2024 15:30 03.938' 09.121' 2130 6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.108' 2133 6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.108' 2133 6 M197_6-6 WP2 12/01/2024 15:44 03.936' 09.142' 2134 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 2133 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 2133 6 M197_6-7 WP3 12/01/2024 16:66 03.941' 09.085' 2134 6 M197_6-7 WP3 12/01/2024 16:39 03.944' 09.062' 2134 6 M197_6-8 MSN 12/01/2024 16:34 03.944' 09.072' 2134 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 2134 6 M197_6-8 MSN 12/01/2024 17:09 03.940'	6	M197 6-5	ISP	12/01/2024 15:15			2136
6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.108' 2133' 6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.108' 2133' 6 M197_6-6 WP2 12/01/2024 15:44 03.936' 09.142' 2130' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 16:06 03.941' 09.085' 213' 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 213' 6 M197_6-8 MSN 12/01/2024 16:39 03.945' 09.062' 213' 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 213' 6 M197_6-8 MSN 12/01/2024 17:35 03.936' <td>-</td> <td> · ·</td> <td>_</td> <td></td> <td></td> <td></td> <td></td>	-	· ·	_				
6 M197_6-6 WP2 12/01/2024 15:37 03.940' 09.108' 2133 6 M197_6-6 WP2 12/01/2024 15:44 03.936' 09.142' 2130 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 16:06 03.941' 09.085' 213' 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 213' 6 M197_6-8 MSN 12/01/2024 16:39 03.945' 09.062' 213' 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:39 03.940' 09.169' 213' 6 M197_6-8 MSN 12/01/2024 17:35 03.936'	6	M197_6-6	WP2	12/01/2024 15:30	03.938'	09.121'	2136
6 M197_6-6 WP2 12/01/2024 15:44 03.936' 09.142' 2134 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.085' 213' 6 M197_6-7 WP3 12/01/2024 16:30 03.941' 09.085' 213' 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 213' 6 M197_6-8 MSN 12/01/2024 16:39 03.944' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 213' 6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 213' 7 M197_6-8 MSN 12/01/2024 17:35 03.936'							
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6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 16:06 03.941' 09.085' 213' 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 213' 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 213' 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 213' 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93'					-		0.400
6 M197_6-7 WP3 12/01/2024 15:50 03.937' 09.146' 213' 6 M197_6-7 WP3 12/01/2024 16:06 03.941' 09.085' 213' 6 M197_6-7 WP3 12/01/2024 16:30 03.945' 09.062' 213' 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 213' 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 213' 7 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 213' 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93'	6	M197_6-6	WP2	12/01/2024 15:44			2136
6 M197_6-7 WP3 12/01/2024 16:06 34° 034° 2133 6 M197_6-7 WP3 12/01/2024 16:39 03.941' 09.085' 2133 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 2133 6 M197_6-8 MSN 12/01/2024 16:39 03.945' 09.062' 2133 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 2133 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 2134 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 2134 6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 2134 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93'	G	M107 6 7	1V/D2	12/01/2024 15:50	-		0107
6 M197_6-7 WP3 12/01/2024 16:06 03.941' 09.085' 2133 6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 2133 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 2133 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 2133 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 2134 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 2134 6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 2134 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93'	0	WI 197_0-7		12/01/2024 13.30			2131
6 M197_6-7 WP3 12/01/2024 16:39 34° 034° 034° 2133 6 M197_6-8 MSN 12/01/2024 16:39 03.945' 09.062' 2133 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 213' 6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 213' 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93'	6	M197 6-7	WP3	12/01/2024 16:06			2138
6 M197_6-7 WP3 12/01/2024 16:39 03.945' 09.062' 2133 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 2133 6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 2133 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 2134 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 2134 6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 2134 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93'	5	<u></u>		12/01/2024 10.00			2100
6 M197_6-8 MSN 12/01/2024 16:44 03.944' 09.072' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 213' 6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 213' 6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 213' 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93'	6	M197 6-7	WP3	12/01/2024 16:39	-		2135
6 M197_6-8 MSN 12/01/2024 17:09 34° 034° 034° 2130 6 M197_6-8 MSN 12/01/2024 17:39 03.940' 09.169' 2130 6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 2130 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93°	-						
6 M197_6-8 MSN 12/01/2024 17:09 03.940' 09.169' 2130 6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 2130 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 930	6	M197_6-8	MSN	12/01/2024 16:44		09.072'	2137
6 M197_6-8 MSN 12/01/2024 17:35 34° 034° 034° 2133 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93°					-		
6 M197_6-8 MSN 12/01/2024 17:35 03.936' 09.228' 2138 7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93'	6	M197_6-8	MSN	12/01/2024 17:09			2136
7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93	_				-		
7 M197_7-1 CTD 13/01/2024 06:21 41.077' 32.238' 93	6	M197_6-8	MSN	12/01/2024 17:35			2135
	7	M107 7 4		12/01/2024 06:04			0.24
	1	IVI 197_7-1		13/01/2024 06:21			931
	7	M197 7-1	СТО	13/01/2024 06:43			930
<u> </u>	ı			10/01/2024 00.40			550
	7	M197 7-1	CTD	13/01/2024 07:08			930

1		1		33°	032°	I
7	M197_7-2	CTD-UC	13/01/2024 07:13	41.062'	32.230'	933
_				33°	032°	
7	M197_7-2	CTD-UC	13/01/2024 07:39	41.061' 33°	32.231' 032°	932
7	M197 7-2	CTD-UC	13/01/2024 08:10	33 41.062'	32.231'	932
,	WI107_1-2		13/01/2024 00.10	33°	032°	002
7	M197_7-3	CTD	13/01/2024 08:17	41.061'	32.230'	930
				33°	032°	
7	M197_7-3	CTD	13/01/2024 08:24	41.061'	32.230'	931
7	M197 7-3	СТД	13/01/2024 08:33	33° 41.061'	032° 32.230'	930
,	<u></u>		13/01/2024 00.33	33°	032°	350
7	M197_7-4	ISC	13/01/2024 08:41	41.062'	32.230'	932
				33°	032°	
7	M197_7-4	ISC	13/01/2024 10:41	41.023'	31.321'	952
7	M197 7-4	ISC	13/01/2024 11:17	33° 41.018'	032° 31.555'	942
/	101197_7-4	130	13/01/2024 11.17	33°	032°	942
7	M197 7-5	ISP	13/01/2024 11:37	41.070'	32.239'	932
-				33°	032°	
7	M197_7-5	ISP	13/01/2024 11:49	41.068'	32.239'	930
-			40/04/0004 44-50	33°	032°	004
7	M197_7-5	ISP	13/01/2024 11:56	41.065' 33°	32.239' 032°	931
7	M197 7-5	ISP	13/01/2024 12:02	41.067'	32.239'	930
			10/01/2021 12:02	33°	032°	
7	M197_7-5	ISP	13/01/2024 12:05	41.065'	32.239'	930
_				33°	032°	
7	M197_7-5	ISP	13/01/2024 12:09	41.064' 33°	32.241' 032°	930
7	M197 7-5	ISP	13/01/2024 12:12	33 41.072'	32.247'	931
			10/01/2024 12.12	33°	032°	001
7	M197_7-5	ISP	13/01/2024 12:15	41.075'	32.247'	930
_				33°	032°	
7	M197_7-5	ISP	13/01/2024 12:18	41.086'	32.253'	929
7	M197_7-5	ISP	13/01/2024 12:21	33° 41.076'	032° 32.252'	930
			10/01/2024 12.21	33°	032°	000
7	M197_7-5	ISP	13/01/2024 12:22	41.076'	32.252'	931
				33°	032°	
7	M197_7-5	ISP	13/01/2024 15:12	41.080'	32.255'	931
7	M197 7-5	ISP	13/01/2024 15:14	33° 41.080'	032° 32.255'	930
/	101197_7-5	10	13/01/2024 13.14	33°	032°	930
7	M197 7-5	ISP	13/01/2024 15:17	41.081'	32.255'	930
				33°	032°	
7	M197_7-5	ISP	13/01/2024 15:19	41.082'	32.255'	930
7	M107 7 F	ISP	12/01/2024 45:24	33°	032°	024
	M197_7-5		13/01/2024 15:21	41.080' 33°	32.255' 032°	931
7	M197 7-5	ISP	13/01/2024 15:24	41.080'	32.255'	931
				33°	032°	
7	M197_7-5	ISP	13/01/2024 15:28	41.081'	32.255'	930
_			40/04/0004 45 64	33°	032°	004
7	M197_7-5	ISP	13/01/2024 15:34	41.080' 33°	32.256' 032°	931
7	M197 7-5	ISP	13/01/2024 15:41	33 41.058'	32.279'	929
			10,017E0E (10.41		52.210	520

7	M197 7-5	ISP	13/01/2024 15:43	33° 41.050'	032° 32.287'	931
			10/01/2021 10:10	33°	032°	001
7	M197 7-6	TVMUC	13/01/2024 15:54	41.073'	32.252'	930
				33°	032°	
7	M197_7-6	TVMUC	13/01/2024 16:33	41.080'	32.253'	933
				33°	032°	
7	M197_7-6	TVMUC	13/01/2024 16:55	41.081'	32.255'	930
_				33°	032°	
7	M197_7-7	WP2	13/01/2024 17:08	41.081'	32.254'	930
-	M407 7 7		40/04/0004 47 45	33°	032°	004
7	M197_7-7	WP2	13/01/2024 17:15	41.081' 33°	32.254' 032°	931
7	M197 7-7	WP2	13/01/2024 17:41	33 41.074'	32.245'	931
1	IVI 197_1-1		13/01/2024 17.41	33°	032°	931
7	M197 7-8	WP2	13/01/2024 17:45	41.075'	32.247'	932
'	<u></u>		10/01/2024 11:40	33°	032°	002
7	M197 7-8	WP2	13/01/2024 17:54	41.044'	32.209'	931
				33°	032°	
7	M197_7-8	WP2	13/01/2024 18:02	41.045'	32.209'	931
				33°	032°	
7	M197_7-9	WP3	13/01/2024 18:06	41.045'	32.208'	931
				33°	032°	
7	M197_7-9	WP3	13/01/2024 18:13	41.046'	32.210'	932
				33°	032°	
7	M197_7-9	WP3	13/01/2024 18:20	41.044'	32.208'	931
-	M407 7 40		40/04/0004 40 00	33°	032°	000
7	M197_7-10	MSN	13/01/2024 18:28	41.046' 33°	32.209'	932
7	M197 7-10	MSN	13/01/2024 18:53	41.044'	032° 32.209'	931
/	101197_7-10		13/01/2024 10.55	33°	032°	931
7	M197 7-10	MSN	13/01/2024 19:19	41.046'	32.209'	932
	WI107_7-10		10/01/2024 10:10	33°	032°	552
7	M197 7-11	ISC	13/01/2024 19:32	41.045'	32.208'	931
-				33°	032°	
7	M197 7-11	ISC	13/01/2024 21:42	41.841'	31.075'	1002
				33°	032°	
7	M197_7-11	ISC	13/01/2024 22:07		31.067'	1004
				34°	032°	
8	M197_8-1	CTD	14/01/2024 03:57	04.455'	41.007'	2566
0	M407 0 4	OTD	44/04/0004 04 47	34°	032°	0500
8	M197_8-1	CTD	14/01/2024 04:47	04.455' 34°	41.007' 032°	2562
8	M197 8-1	СТД	14/01/2024 05:33	34 04.454'	41.005'	2562
0	101197_0-1		14/01/2024 05.55	04.454 34°	41.005 032°	2002
8	M197 8-2	CTD-UC	14/01/2024 05:40	34 04.454'	41.006'	2560
		0.000	1.1017202 Y 00.40	34°	032°	2000
8	M197 8-2	CTD-UC	14/01/2024 06:44	04.448'	41.019'	2559
				34°	032°	
8	M197_8-2	CTD-UC	14/01/2024 07:38	04.450'	41.017'	2558
				34°	032°	
8	M197_8-3	CTD	14/01/2024 07:48	04.449'	41.014'	2564
				34°	032°	_
8	M197_8-3	CTD	14/01/2024 07:55	04.449'	41.015'	2563
_	M407 0 0		44/04/0004 00 05	34°	032°	05
8	M197_8-3	CTD	14/01/2024 08:03	04.449'	41.016'	2557
8	M197 8-4	TVMUC	14/01/2024 08:12	34° 04.451'	032°	2559
0	IVI I 37_0-4		14/01/2024 00.12	04.451'	41.014'	2009

8 M197_8-4 TVMUC 14/01/2024 09:01 04,451' 41.015' 2557 8 M197_8-4 TVMUC 14/01/2024 09:48 04.451' 41.015' 2560 8 M197_8-5 ISP 14/01/2024 10:09 04.450' 41.014' 2564 8 M197_8-5 ISP 14/01/2024 10:30 04.450' 41.014' 2565 8 M197_8-5 ISP 14/01/2024 10:30 04.450' 41.014' 2563 8 M197_8-5 ISP 14/01/2024 10:30 04.450' 41.014' 2562 8 M197_8-5 ISP 14/01/2024 10:40 04.450' 41.014' 2564 8 M197_8-5 ISP 14/01/2024 10:40 04.450' </th <th> </th> <th> </th> <th></th> <th>1</th> <th>34°</th> <th>032°</th> <th>I</th>				1	34°	032°	I
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8 M197_8-5 ISP 14/01/2024 13:48 04.449' 41.012' 2557 8 M197_8-5 ISP 14/01/2024 13:50 04.450' 41.013' 2558 8 M197_8-5 ISP 14/01/2024 13:50 04.450' 41.013' 2558 8 M197_8-5 ISP 14/01/2024 13:52 04.450' 41.013' 2558 8 M197_8-5 ISP 14/01/2024 13:52 04.449' 41.012' 2555 8 M197_8-5 ISP 14/01/2024 13:56 04.449' 41.012' 2558 8 M197_8-5 ISP 14/01/2024 13:56 04.449' 41.012' 2558 8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.014' 2560 34° 032° 34° 032° 34° 032° 34° 032° 8 M197_8-5 ISP 14/01/2024 14:18 04.448'	8	M197_8-5	ISP	14/01/2024 13:45	04.449'	41.013'	2560
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8 M197_8-5 ISP 14/01/2024 13:50 04.450' 41.013' 2558 8 M197_8-5 ISP 14/01/2024 13:52 04.450' 41.013' 2558 8 M197_8-5 ISP 14/01/2024 13:52 04.450' 41.012' 2558 8 M197_8-5 ISP 14/01/2024 13:56 04.449' 41.012' 2555 8 M197_8-5 ISP 14/01/2024 13:56 04.449' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.014' 2560 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-6 WP2 14/01/2024 14:18 04.448' 41.022' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436'	8	M197_8-5	ISP	14/01/2024 13:48			2557
8 M197_8-5 ISP 14/01/2024 13:52 04.450' 41.013' 2558 8 M197_8-5 ISP 14/01/2024 13:56 04.450' 41.013' 2558 8 M197_8-5 ISP 14/01/2024 13:56 04.449' 41.012' 2555 8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.014' 2560 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:16 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.448' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:30 04.436'	0	M107 9 5		14/01/2024 12:50			2550
8 M197_8-5 ISP 14/01/2024 13:52 04.450' 41.013' 2558 8 M197_8-5 ISP 14/01/2024 13:56 04.449' 41.012' 2555 8 M197_8-5 ISP 14/01/2024 13:56 04.449' 41.012' 2555 8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.014' 2560 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:16 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.448' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436'	0	W197_0-5		14/01/2024 13.30			2000
8 M197_8-5 ISP 14/01/2024 13:56 04.449' 41.012' 2555 8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.014' 2560 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:18 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.448' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-7 WP3 14/01/2024 14:48 04.434'	8	M197 8-5	ISP	14/01/2024 13:52			2558
8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.014' 2560 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.014' 2560 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.022' 2567 8 M197_8-5 ISP 14/01/2024 14:18 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:36 04.442' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554		— — —					
8 M197_8-5 ISP 14/01/2024 14:02 04.447' 41.022' 2558 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.014' 2560 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:18 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:46 04.435' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.042' 2554	8	M197_8-5	ISP	14/01/2024 13:56			2555
8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.014' 2560 8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:18 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:30 04.443' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.435' 41.042' 2557 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.042' 2553	0	M107 9 5		14/01/2024 14:02	-		2550
8 M197_8-5 ISP 14/01/2024 14:07 04.449' 41.014' 2560 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:18 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554	0	101197_0-5	15P	14/01/2024 14.02	-		2000
8 M197_8-5 ISP 14/01/2024 14:16 34° 032° 8 M197_8-5 ISP 14/01/2024 14:16 04.449' 41.013' 2556 8 M197_8-5 ISP 14/01/2024 14:18 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-7 WP3 14/01/2024 14:48 04.435' 41.042' 2553	8	M197 8-5	ISP	14/01/2024 14:07	-		2560
8 M197_8-5 ISP 14/01/2024 14:18 34° 032° 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:44 04.435' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554		_					
8 M197_8-5 ISP 14/01/2024 14:18 04.448' 41.022' 2567 8 M197_8-6 WP2 14/01/2024 14:30 04.448' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:36 04.442' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.435' 41.042' 2553 8 M197_8-6 WP2 14/01/2024 14:44 04.435' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554	8	M197_8-5	ISP	14/01/2024 14:16			2556
8 M197_8-6 WP2 14/01/2024 14:30 34° 032° 8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.435' 41.042' 2553 8 M197_8-6 WP2 14/01/2024 14:44 04.435' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554	~	M407 0 5		44/04/0004 44 40			0507
8 M197_8-6 WP2 14/01/2024 14:30 04.442' 41.042' 2559 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:44 04.435' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554	8	W197_8-5	152	14/01/2024 14:18			2567
8 M197_8-6 WP2 14/01/2024 14:36 34° 032° 8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:44 04.435' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554	8	M197 8-6	WP2	14/01/2024 14:30	-		2559
8 M197_8-6 WP2 14/01/2024 14:36 04.436' 41.042' 2557 8 M197_8-6 WP2 14/01/2024 14:44 04.435' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554				1.1.0 172027 14.00			2000
8 M197_8-6 WP2 14/01/2024 14:44 04.435' 41.042' 2553 8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554	8	M197_8-6	WP2	14/01/2024 14:36	04.436'	41.042'	<u>25</u> 57
8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554							
8 M197_8-7 WP3 14/01/2024 14:48 04.434' 41.041' 2554	8	M197_8-6	WP2	14/01/2024 14:44			2553
	0	M107 9 7		14/01/2024 14:40			DEEA
	Ó	IVI 197_0-7	VVF3	14/01/2024 14.40	04.434 34°	41.041 032°	2004
8 M197 8-7 WP3 14/01/2024 15:05 04.419' 41.027' 2558	8	M197 8-7	WP3	14/01/2024 15:05			2558
					34°		
8 M197 8-7 WP3 14/01/2024 15:38 04.417' 41.025' 2555	8	M197_8-7	WP3	14/01/2024 15:38	04.417'	41.025'	2555

		1	I	34°	032°	I
8	M197_8-8	MSN	14/01/2024 15:45	04.437'	41.045'	2565
				34°	032°	
8	M197_8-8	MSN	14/01/2024 16:10	04.431'	41.039'	2554
0	N407 0 0	MON	44/04/0004 40:07	34°	032°	0550
8	M197_8-8	MSN	14/01/2024 16:37	04.427' 33°	41.036' 030°	2552
9	M197 9-1	СТД	15/01/2024 06:20	33 48.058'	17.748'	2843
5	WI107_0-1		13/01/2024 00:20	33°	030°	2040
9	M197 9-1	CTD	15/01/2024 07:16	48.047'	17.732'	2843
	—			33°	030°	
9	M197_9-1	CTD	15/01/2024 08:07	48.048'	17.731'	2784
				33°	030°	00.44
9	M197_9-2	CTD-UC	15/01/2024 08:13	48.048'	17.732'	2841
9	M197 9-2	CTD-UC	15/01/2024 09:19	33° 48.050'	030° 17.734'	2841
9	101197_9-2		15/01/2024 09.19	48.050 33°	030°	2041
9	M197 9-2	CTD-UC	15/01/2024 10:17	48.051'	17.734'	2842
				33°	030°	
9	M197_9-3	CTD	15/01/2024 10:22	48.051'	17.735'	2841
				33°	030°	
9	M197_9-3	CTD	15/01/2024 10:28	48.051'	17.734'	2843
	14407 0.0	075	451041000440.00	33°	030°	00.40
9	M197_9-3	CTD	15/01/2024 10:36	48.051' 33°	17.734' 030°	2843
9	M197 9-4	TVMUC	15/01/2024 10:45	33 48.051'	17.734'	2842
3	101137_3-4		13/01/2024 10.43	33°	030°	2042
9	M197 9-4	TVMUC	15/01/2024 11:38	48.049'	17.733'	3082
				33°	030°	
9	M197_9-4	TVMUC	15/01/2024 12:28	48.059'	17.758'	2845
				33°	030°	
9	M197_9-5	ISP	15/01/2024 12:41	48.061'	17.759'	2842
9	M107 0 5	ISP	15/01/2024 12:55	33°	030° 17.752'	2001
9	M197_9-5	105	15/01/2024 12.55	48.058' 33°	030°	3081
9	M197 9-5	ISP	15/01/2024 13:01	48.049'	17.732'	2846
				33°	030°	
9	M197_9-5	ISP	15/01/2024 13:07	48.049'	17.732'	2848
				33°	030°	
9	M197_9-5	ISP	15/01/2024 13:10	48.049'	17.732'	3015
9			15/01/2024 13:14	33°	030°	2042
9	M197_9-5	ISP	15/01/2024 13.14	48.049' 33°	17.732' 030°	2843
9	M197 9-5	ISP	15/01/2024 13:17	48.049'	17.732'	2843
			10/01/2021 10:11	33°	030°	2010
9	M197_9-5	ISP	15/01/2024 13:20	48.049'	17.732'	2844
				33°	030°	
9	M197_9-5	ISP	15/01/2024 13:22	48.050'	17.732'	2845
~			45/04/0004 40.05	33°	030°	00.40
9	M197_9-5	ISP	15/01/2024 13:25	48.048' 33°	17.732' 030°	2843
9	M197 9-5	ISP	15/01/2024 13:26	33° 48.048'	17.732'	2842
3	<u></u>		10/01/2027 10.20	40.040 33°	030°	2042
9	M197 9-5	ISP	15/01/2024 16:11	48.053'	17.748'	2843
				33°	030°	
9	M197_9-5	ISP	15/01/2024 16:13	48.053'	17.747'	2843
				33°	030°	00.40
9	M197_9-5	ISP	15/01/2024 16:16	48.052'	17.745'	2846

9	M197 9-5	ISP	15/01/2024 16:18	33° 48.052'	030° 17.744'	2843
9	M197 9-5	ISP	15/01/2024 16:20	33° 48.051'	030° 17.741'	2842
9	M197 9-5	ISP	15/01/2024 16:23	33° 48.050'	030° 17.730'	2844
				33°	030°	
9	M197_9-5	ISP	15/01/2024 16:26	48.045' 33°	17.711' 030°	2842
9	M197_9-5	ISP	15/01/2024 16:32	48.049'	17.731'	2843
9	M197_9-5	ISP	15/01/2024 16:38	33° 48.060'	030° 17.784'	2842
9	M197_9-5	ISP	15/01/2024 16:45	33° 48.056'	030° 17.765'	2845
9	M197_9-6	WP2	15/01/2024 16:52	33° 48.051'	030° 17.739'	2844
9	M197 9-6	WP2	15/01/2024 16:59	33° 48.054'	030° 17.755'	2842
	<u>witor_</u> 0-0		10/01/2024 10:00	33°	030°	2042
9	M197_9-6	WP2	15/01/2024 17:07	48.059'	17.776'	2842
9	M197_9-7	WP3	15/01/2024 17:09	33° 48.060'	030° 17.783'	2840
9	M197 9-7	WP3	15/01/2024 17:16	33° 48.061'	030° 17.794'	2842
	W137_3-7	WI 5	15/01/2024 17:10	33°	030°	2042
9	M197_9-7	WP3	15/01/2024 17:23	48.062'	17.795'	2841
9	M197_9-8	MSN	15/01/2024 17:29	33° 48.059'	030° 17.778'	2844
				33°	030°	00.40
9	M197_9-8	MSN	15/01/2024 17:54	48.055' 33°	17.755' 030°	2843
9	M197_9-8	MSN	15/01/2024 18:19	48.056'	17.768'	2841
10	M197_10-1	CTD	16/01/2024 13:51	33° 46.810'	027° 34.297'	2690
10	M197 10-1	CTD	16/01/2024 14:52	33° 46.777'	027° 34.233'	2691
10	 M197_10-1	CTD	16/01/2024 15:40	33° 46.777'	027° 34.231'	2691
10			10/01/2024 13.40	33°	027°	2031
10	M197_10-2	CTD-UC	16/01/2024 15:58	46.777'	34.231'	2691
10	M197_10-2	CTD-UC	16/01/2024 17:00	33° 46.776'	027° 34.232'	2692
10	M197 10-2	CTD-UC	16/01/2024 17:57	33° 46.777'	027° 34.234'	2690
10	M197 10-3	CTD	16/01/2024 18:06	33° 46.776'	027° 34.231'	2691
10	 M197 10-3	CTD	16/01/2024 18:13	33° 46.776'	027° 34.230'	2689
	—			33°	027°	
10	M197_10-3	CTD	16/01/2024 18:21	46.778' 33°	34.232' 027°	2690
10	M197_10-4	ISP	16/01/2024 19:25	46.777'	34.232'	2706
10	M197_10-4	ISP	16/01/2024 19:31	33° 46.778'	027° 34.232'	2706
10	M197_10-4	ISP	16/01/2024 19:43	33° 46.776'	027° 34.232'	2708
10	M197_10-4	ISP	16/01/2024 19:51	33° 46.777'	027° 34.231'	2707

	l	I	1	33°	027°	
10	M197_10-4	ISP	16/01/2024 19:59	46.777'	34.231'	2706
				33°	027°	
10	M197_10-4	ISP	16/01/2024 20:03	46.778'	34.231'	2708
10	M107 10 4	ISP	16/01/2024 20:07	33°	027°	2706
10	M197_10-4	15P	10/01/2024 20.07	46.777' 33°	34.232' 027°	2706
10	M197 10-4	ISP	16/01/2024 20:11	46.778'	34.233'	2706
				33°	027°	
10	M197_10-4	ISP	16/01/2024 20:14	46.778'	34.232'	2706
				33°	027°	
10	M197_10-4	ISP	16/01/2024 20:17	46.777' 33°	34.232' 027°	2706
10	M197 10-4	ISP	16/01/2024 20:18	33 46.776'	34.232'	2705
10	W107_10-4		10/01/2024 20:10	33°	027°	2100
10	M197_10-4	ISP	16/01/2024 22:59	46.786'	34.236'	2712
				33°	027°	
10	M197_10-4	ISP	16/01/2024 23:02	46.782'	34.238'	2712
10	M197 10-4	ISP	16/01/2024 23:05	33° 46.782'	027° 34.244'	2707
10	10-4	13F	10/01/2024 23.05	33°	027°	2101
10	M197 10-4	ISP	16/01/2024 23:11	46.786'	34.256'	2703
				33°	027°	
10	M197_10-4	ISP	16/01/2024 23:15	46.787'	34.266'	2705
10				33°	027°	
10	M197_10-4	ISP	16/01/2024 23:20	46.786' 33°	34.260' 027°	2707
10	M197 10-4	ISP	16/01/2024 23:27	33 46.785'	34.253'	2707
10			10/01/2021 20:21	33°	027°	2101
10	M197_10-4	ISP	16/01/2024 23:33	46.786'	34.257'	2707
				33°	027°	
10	M197_10-4	ISP	16/01/2024 23:44	46.788'	34.269' 027°	2711
10	M197 10-4	ISP	16/01/2024 23:50	33° 46.787'	34.268'	2710
10	W107_10-4		10/01/2024 20:00	33°	027°	2110
10	M197_10-5	WP2	17/01/2024 00:00	46.789'	34.270'	2703
				33°	027°	
10	M197_10-5	WP2	17/01/2024 00:17	46.787'	34.262'	2710
10	M197 10-5	WP2	17/01/2024 00:27	33° 46.783'	027° 34.244'	2707
10	W107_10-0		11/01/2024 00.21	33°	027°	2101
10	M197_10-6	WP3	17/01/2024 00:31	46.783'	34.246'	2707
				33°	027°	
10	M197_10-6	WP3	17/01/2024 00:51	46.780'	34.230'	2707
10	M197 10-6	WP3	17/01/2024 01:02	33° 46.779'	027° 34.227'	2704
10		VVEJ	17/01/2024 01.02	33°	027°	2104
10	M197_10-7	MSN	17/01/2024 01:07	46.783'	34.242'	2707
	—			33°	027°	
10	M197_10-7	MSN	17/01/2024 01:34	46.781'	34.235'	2708
10	M107 10 7	MON	17/01/2024 02:04	33°	027°	0700
10	M197_10-7	MSN	17/01/2024 02:01	46.776' 34°	34.208' 026°	2708
11	M197 11-1	СТД	17/01/2024 08:30	00.503'	31.170'	3169
		-		34°	026°	
11	M197_11-1	CTD	17/01/2024 09:31	00.502'	31.170'	3167
4.4	M407 44 4	CTD	17/01/0004 40 00	34°	026°	0400
11	M197_11-1	CTD	17/01/2024 10:28	00.503'	31.165'	3168

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11 M197_11-2 CTD-UC 17/01/2024 12:53 34° 026° 11 M197_11-3 CTD 17/01/2024 12:57 00.503' 31.168' 11 M197_11-3 CTD 17/01/2024 12:57 00.504' 31.168' 11 M197_11-3 CTD 17/01/2024 12:57 00.504' 31.168' 11 M197_11-3 CTD 17/01/2024 13:03 00.502' 31.178' 11 M197_11-3 CTD 17/01/2024 13:01 00.501' 31.182' 11 M197_11-4 TVMUC 17/01/2024 13:21 00.500' 31.192' 11 M197_11-4 TVMUC 17/01/2024 13:21 00.501' 31.188' 11 M197_11-4 TVMUC 17/01/2024 13:21 00.501' 31.188' 11 M197_11-5 ISP 17/01/2024 15:22 00.502' 31.185' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177'	3170 3169 3170 3172 3173 3172 3172 3170 3172
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11 M197_11-3 CTD 17/01/2024 12:57 00.504' 31.168' 11 M197_11-3 CTD 17/01/2024 13:03 00.502' 31.178' 11 M197_11-3 CTD 17/01/2024 13:03 00.502' 31.178' 11 M197_11-3 CTD 17/01/2024 13:01 00.501' 31.182' 11 M197_11-4 TVMUC 17/01/2024 13:21 00.500' 31.192' 11 M197_11-4 TVMUC 17/01/2024 13:21 00.501' 31.182' 11 M197_11-4 TVMUC 17/01/2024 13:21 00.501' 31.182' 11 M197_11-4 TVMUC 17/01/2024 14:17 00.501' 31.188' 11 M197_11-5 ISP 17/01/2024 15:22 00.502' 31.185' 11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 026° 34°	3170 3172 3173 3173 3172 3170 3172
11 M197_11-3 CTD 17/01/2024 13:03 00.502' 31.178' 11 M197_11-3 CTD 17/01/2024 13:03 00.502' 31.178' 11 M197_11-3 CTD 17/01/2024 13:11 00.501' 31.182' 11 M197_11-4 TVMUC 17/01/2024 13:21 00.500' 31.192' 11 M197_11-4 TVMUC 17/01/2024 13:21 00.500' 31.192' 11 M197_11-4 TVMUC 17/01/2024 13:21 00.501' 31.188' 11 M197_11-4 TVMUC 17/01/2024 14:17 00.501' 31.188' 11 M197_11-5 ISP 17/01/2024 15:22 00.502' 31.185' 11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.603' 31.199'	3170 3172 3173 3173 3172 3170 3172
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11 M197_11-3 CTD 17/01/2024 13:11 00.501' 31.182' 1 M197_11-4 TVMUC 17/01/2024 13:21 00.500' 31.192' 34° 026° 34° 026° 11 M197_11-4 TVMUC 17/01/2024 13:21 00.500' 31.192' 34° 026° 34° 026° 34° 026° 11 M197_11-4 TVMUC 17/01/2024 14:17 00.501' 31.188' 11 M197_11-4 TVMUC 17/01/2024 15:22 00.502' 31.185' 11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:29 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199' 34° 026° 34° 026° 34° 026°	3173 3172 3170 3172 3172
11 M197_11-4 TVMUC 17/01/2024 13:21 00.500' 31.192' 1 M197_11-4 TVMUC 17/01/2024 14:17 00.501' 31.188' 11 M197_11-4 TVMUC 17/01/2024 14:17 00.501' 31.188' 11 M197_11-4 TVMUC 17/01/2024 15:22 00.502' 31.185' 11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199' 34° 026° 34° 026° 34° 026°	3172 3170 3172
11 M197_11-4 TVMUC 17/01/2024 14:17 34° 026° 11 M197_11-4 TVMUC 17/01/2024 15:22 00.501' 31.188' 11 M197_11-4 TVMUC 17/01/2024 15:22 00.502' 31.185' 11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:29 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 34° 026° 34° 026° 34° 026° 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199' 34° 026° 34° 026° 34° 026°	3172 3170 3172
11 M197_11-4 TVMUC 17/01/2024 14:17 00.501' 31.188' 1 M197_11-4 TVMUC 17/01/2024 15:22 00.502' 31.185' 11 M197_11-4 TVMUC 17/01/2024 15:22 00.502' 31.185' 11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:29 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.499' 31.199' 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199'	3170 3172
11 M197_11-4 TVMUC 17/01/2024 15:22 34° 026° 11 M197_11-5 ISP 17/01/2024 15:22 00.502' 31.185' 11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.603' 31.177' 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199' 34° 026° 34° 026° 34° 026°	3170 3172
11 M197_11-4 TVMUC 17/01/2024 15:22 00.502' 31.185' 1 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:29 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.499' 31.199' 11 M197_010 M197_000 M190' 31.199' 34° 026°	3172
11 M197_11-5 ISP 17/01/2024 15:29 34° 026° 11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199' 34° 026° 34° 026° 34° 026°	3172
11 M197_11-5 ISP 17/01/2024 15:29 00.504' 31.160' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199' 34° 026° 34° 026° 34° 026° 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199'	
11 M197_11-5 ISP 17/01/2024 15:38 34° 026° 11 M197_11-5 ISP 17/01/2024 15:38 00.503' 31.177' 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199' 34° 026° 34° 026° 34° 026° 11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199'	
11 M197_11-5 ISP 17/01/2024 15:46 34° 026° 34° 026° 00.499' 31.199' 34° 026°	3173
11 M197_11-5 ISP 17/01/2024 15:46 00.499' 31.199' 34° 026°	
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11 M197 11-5 ISP 17/01/2024 15:58 00.499' 31.200'	3172
34° 026°	5172
11 M197 11-5 ISP 17/01/2024 16:02 00.499' 31.205'	3176
34° 026°	
11 M197_11-5 ISP 17/01/2024 16:03 00.499' 31.205'	3173
34° 026°	
11 M197_11-5 ISP 17/01/2024 16:06 00.498' 31.204'	3175
11 M197 11-5 ISP 17/01/2024 16:08 00.498' 31.204'	3175
11 M197_11-5 13F 17/01/2024 10:06 00.496 31.204 34° 026° <td>5175</td>	5175
11 M197_11-5 ISP 17/01/2024 16:12 00.498' 31.203'	3175
34° 026°	
11 M197_11-5 ISP 17/01/2024 16:14 00.499' 31.204'	3174
34° 026°	
11 M197_11-5 ISP 17/01/2024 18:57 00.496' 31.229'	3178
11 M197 11-5 ISP 17/01/2024 18:59 00.497' 31.223'	0170
11 M197_11-5 ISP 17/01/2024 18:59 00.497' 31.223' 34° 026°	3173
11 M197 11-5 ISP 17/01/2024 19:01 00.498' 31.216'	3176
34° 026°	
11 M197_11-5 ISP 17/01/2024 19:03 00.498' 31.214'	3171
34° 026°	
11 M197_11-5 ISP 17/01/2024 19:05 00.498' 31.213'	3175
	0470
11 M197_11-5 ISP 17/01/2024 19:08 00.498' 31.212' 34° 026°<	3172
11 M197 11-5 ISP 17/01/2024 19:14 00.497' 31.222'	3176
34° 026°	0110
11 M197_11-5 ISP 17/01/2024 19:20 00.496' 31.225'	3177
11 M197_11-5 ISP 17/01/2024 19:28 00.496' 31.229'	3178

				34°	026°	
11	M197 11-5	ISP	17/01/2024 19:30	00.496'	31.228'	3177
				34°	026°	
11	M197_11-6	WP2	17/01/2024 19:38	00.497'	31.218'	3177
	M407 44 C		47/04/0004 40:45	34°	026°	2400
11	M197_11-6	WP2	17/01/2024 19:45	00.497' 34°	31.217' 026°	3182
11	M197 11-6	WP2	17/01/2024 19:52	00.500'	31.202'	3176
			11/01/2021 10:02	34°	026°	0110
11	M197_11-7	WP3	17/01/2024 19:55	00.500'	31.199'	3174
				34°	026°	
11	M197_11-7	WP3	17/01/2024 20:12	00.497'	31.221'	3174
11	M197 11-7	WP3	17/01/2024 20:45	34° 00.497'	026° 31.223'	3175
	W197_11-7	WF 5	11/01/2024 20.43	34°	026°	5175
11	M197 11-8	MSN	17/01/2024 20:50	00.495'	31.237'	3174
				34°	026°	
11	M197_11-8	MSN	17/01/2024 21:14	00.496'	31.228'	3174
11	M407 44 0	MSN	17/01/2024 21.44	34°	026°	0474
11	M197_11-8	INISIN	17/01/2024 21:41	00.507' 34°	31.153' 026°	3171
11	M197 11-9	ISC	17/01/2024 21:49	00.506'	31.163'	3170
				34°	026°	
11	M197_11-9	ISC	18/01/2024 00:23	00.841'	28.783'	3156
				34°	026°	
11	M197_11-9	ISC	18/01/2024 01:01	00.876' 34°	28.535'	3145
12	M197 12-1	CTD	18/01/2024 05:17	34° 22.065'	026° 05.636'	4255
12	101137_12-1		10/01/2024 03.17	34°	026°	4200
12	M197_12-1	CTD	18/01/2024 06:42	22.063'	05.646'	4258
				34°	026°	
12	M197_12-1	CTD	18/01/2024 07:59	22.061'	05.657'	4501
10	M407 40.0		10/01/2024 00:04	34°	026°	4057
12	M197_12-2	CTD-UC	18/01/2024 08:04	22.062' 34°	05.657' 026°	4257
12	M197 12-2	CTD-UC	18/01/2024 08:15	22.058'	05.662'	4256
				34°	026°	
12	M197_12-3	TVMUC	18/01/2024 08:49	22.066'	05.651'	4254
10	M407 40 0		40/04/0004 40:00	34°	026°	4055
12	M197_12-3	TVMUC	18/01/2024 10:02	22.066' 34°	05.652' 026°	4255
12	M197 12-3	TVMUC	18/01/2024 11:22	22.064'	020	4255
				34°	026°	
12	M197_12-4	CTD	18/01/2024 11:34	22.074'	05.640'	4255
		075		34°	026°	4050
12	M197_12-4	CTD	18/01/2024 11:40	22.076' 34°	05.633'	4256
12	M197 12-4	CTD	18/01/2024 11:47	34° 22.060'	026° 05.650'	4255
12	WI UI_12-4		10/01/2024 11.47	34°	03.030 026°	7200
12	M197_12-5	CTD-UC	18/01/2024 11:53	22.068'	05.660'	4256
				34°	026°	
12	M197_12-5	CTD-UC	18/01/2024 13:32	22.065'	05.624'	4255
40	M107 40 5		10/04/0004 45-00	34°	026°	4055
12	M197_12-5	CTD-UC	18/01/2024 15:00	22.064' 34°	05.648' 026°	4255
12	M197_12-6	ISP	18/01/2024 15:09	22.057'	020	4255
	_ · _ · _ ·			34°	026°	
12	M197_12-6	ISP	18/01/2024 15:16	22.058'	05.659'	4429

			1	34°	026°	I
12	M197_12-6	ISP	18/01/2024 15:25	22.038'	05.688'	4257
				34°	026°	
12	M197_12-6	ISP	18/01/2024 15:36	22.073'	05.636'	4256
12	M197 12-6	ISP	18/01/2024 15:44	34° 22.059'	026° 05.659'	4255
12	WI197_12-0		10/01/2024 13.44	34°	03.039 026°	4233
12	M197 12-6	ISP	18/01/2024 15:49	22.043'	05.681'	4256
				34°	026°	
12	M197_12-6	ISP	18/01/2024 15:52	22.041'	05.685'	4257
10	N407 40 0	100		34°	026°	4050
12	M197_12-6	ISP	18/01/2024 15:55	22.042' 34°	05.681' 026°	4256
12	M197 12-6	ISP	18/01/2024 15:58	22.045'	020	4256
				34°	026°	1200
12	M197_12-6	ISP	18/01/2024 16:01	22.051'	05.669'	4259
				34°	026°	
12	M197_12-6	ISP	18/01/2024 16:02	22.052'	05.666'	4255
12	M197 12-6	ISP	18/01/2024 18:41	34° 22.055'	026° 05.664'	4256
12	11197_12-0		10/01/2024 10.41	34°	03.004 026°	4230
12	M197 12-6	ISP	18/01/2024 18:43	22.057'	05.662'	4253
	— —			34°	026°	
12	M197_12-6	ISP	18/01/2024 18:46	22.059'	05.659'	4253
10	N4407 40 0	105		34°	026°	4400
12	M197_12-6	ISP	18/01/2024 18:49	22.061' 34°	05.657' 026°	4426
12	M197 12-6	ISP	18/01/2024 18:52	34 22.063'	026 05.654'	4253
			10/01/2021 10:02	34°	026°	1200
12	M197_12-6	ISP	18/01/2024 18:56	22.068'	05.645'	4255
				34°	026°	
12	M197_12-6	ISP	18/01/2024 19:03	22.073'	05.640'	4255
12	M197 12-6	ISP	18/01/2024 19:14	34° 22.077'	026° 05.634'	4255
12	101137_12-0		10/01/2024 19.14	34°	03.034 026°	4200
12	M197_12-6	ISP	18/01/2024 19:22	22.075'	05.636'	4255
				34°	026°	
12	M197_12-6	ISP	18/01/2024 19:24	22.075'	05.634'	4500
12	M197 12-7	WP2	18/01/2024 19:32	34° 22.055'	026° 05.665'	4254
12	101197_12-1		10/01/2024 19.32	34°	03.003 026°	4234
12	M197_12-7	WP2	18/01/2024 19:39	22.058'	05.667'	4252
				34°	026°	
12	M197_12-7	WP2	18/01/2024 19:50	22.020'	05.667'	4254
40	M107 10 9		10/01/2024 40-50	34°	026°	1051
12	M197_12-8	WP3	18/01/2024 19:56	22.016' 34°	05.667' 026°	4254
12	M197 12-8	WP3	18/01/2024 20:13	21.931'	020	4251
	· _ · = ·	-		34°	026°	
12	M197_12-8	WP3	18/01/2024 20:46	21.795'	05.688'	4241
				34°	026°	
12	M197_12-9	MSN	18/01/2024 20:51	21.789' 34°	05.689'	4243
12	M197 12-9	MSN	18/01/2024 21:16	34° 21.657'	026° 05.694'	4234
12			10/01/2024 21.10	34°	03.094 026°	7204
12	M197_12-9	MSN	18/01/2024 21:43	21.544'	05.868'	4208
				34°	025°	
13	M197_13-1	CTD	19/01/2024 04:10	15.484'	29.699'	3938

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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	M197_13-1	CTD	19/01/2024 05:31	15.482'	29.698'	3938
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13 M197_13-2 CTD-UC 19/01/2024 06:47 15.486' 29.689' 3944 13 M197_13-2 CTD-UC 19/01/2024 08:15 15.486' 29.689' 3944' 13 M197_13-2 CTD-UC 19/01/2024 09:34 15.510' 29.691' 3933' 13 M197_13-3 CTD 19/01/2024 09:37 15.511' 29.690' 394' 13 M197_13-3 CTD 19/01/2024 09:43 15.513' 29.693' 3933' 13 M197_13-3 CTD 19/01/2024 09:43 15.513' 29.701' 394' 13 M197_13-3 CTD 19/01/2024 09:58 15.493' 29.701' 394' 13 M197_13-4 TVMUC 19/01/2024 11:21 15.484' 29.701' 394' 13 M197_13-5 ISP 19/01/2024 12:30 15.484' 29.705' 393' 13 M197_13-5 ISP 19/01/2024 13:01 15.484' 29.705' 393' 13 M197_13-5 ISP 19/01/2024	13	M197_13-1	CID	19/01/2024 06:42			3938
13 M197_13-2 CTD-UC 19/01/2024 08:15 15.486' 29.688' 3944' 13 M197_13-2 CTD-UC 19/01/2024 08:15 15.486' 29.688' 3944' 13 M197_13-2 CTD-UC 19/01/2024 09:34 15.510' 29.691' 3934' 13 M197_13-3 CTD 19/01/2024 09:37 15.511' 29.690' 3944' 13 M197_13-3 CTD 19/01/2024 09:37 15.513' 29.693' 3933 13 M197_13-3 CTD 19/01/2024 09:54 15.543' 29.701' 394' 13 M197_13-4 TVMUC 19/01/2024 09:54 15.484' 29.705' 3931 13 M197_13-4 TVMUC 19/01/2024 12:30 15.484' 29.705' 3931 13 M197_13-5 ISP 19/01/2024 12:30 15.484' 29.705' 3931 14 M197_13-5 ISP 19/01/2024 13:01 15.484' 29.705' 3931 13 M197_13-5 ISP 19/01/20	10	14407 40 0		40/04/0004 00 47	-		00.40
13 M197_13-2 CTD-UC 19/01/2024 08:15 15.486' 29.681' 3944' 13 M197_13-2 CTD-UC 19/01/2024 09:34 15.510' 29.691' 393' 13 M197_13-3 CTD 19/01/2024 09:37 15.511' 29.693' 393' 13 M197_13-3 CTD 19/01/2024 09:43 15.513' 29.693' 393' 13 M197_13-3 CTD 19/01/2024 09:43 15.513' 29.701' 394' 13 M197_13-4 TVMUC 19/01/2024 09:58 15.493' 29.701' 394' 13 M197_13-4 TVMUC 19/01/2024 11:21 15.484' 29.705' 393' 13 M197_13-5 ISP 19/01/2024 12:30 15.484' 29.705' 393' 13 M197_13-5 ISP 19/01/2024 12:45 15.484' 29.705' 393' 13 M197_13-5 ISP 19/01/2024 13:01 15.485' 29.707' 393' 13 M197_13-5 ISP 19/01/2024 13:	13	M197_13-2		19/01/2024 06:47			3940
13 M197_13-2 CTD-UC 19/01/2024 09:34 15.51' 29.69' 393' 13 M197_13-3 CTD 19/01/2024 09:37 15.51' 29.69' 393' 13 M197_13-3 CTD 19/01/2024 09:37 15.51' 29.690' 394' 13 M197_13-3 CTD 19/01/2024 09:37 15.513' 29.693' 393' 13 M197_13-3 CTD 19/01/2024 09:51 15.513' 29.693' 394' 13 M197_13-3 CTD 19/01/2024 09:54 15.493' 29.701' 394' 13 M197_13-4 TVMUC 19/01/2024 11:21 15.480' 29.692' 393' 13 M197_13-4 TVMUC 19/01/2024 12:30 15.484' 29.705' 393' 13 M197_13-5 ISP 19/01/2024 12:45 15.484' 29.705' 393' 13 M197_13-5 ISP 19/01/2024 13:01 15.484' 29.705' 393' 13 M197_13-5 ISP 19/01/2024 13:01	10	14407 40 0		40/04/0004 00 45	-		00.40
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	10	M407 40 0		40/04/0004 00-04			2020
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	13	M197_13-2		19/01/2024 09:34			3939
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	10	M107 12 2	СТР	10/01/2024 00:27	-		2044
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	10197_13-3		19/01/2024 09.37			3941
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	12	M107 12 2	СТР	10/01/2024 00:43	-		2026
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	10197_13-3		19/01/2024 09.43			3930
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	M197 13-3	СТР	19/01/2024 09:51			3940
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	15	M137_13-3		13/01/2024 03.31			00-0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	M107 13-1	TVMUC	10/01/2024 00.58			3011
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	10	WI107_10-4	1 1 1000	10/01/2024 00.00			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	M197 13-4	TVMUC	19/01/2024 11.21	-		3918
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10		111100	10/01/2021 11.21			0010
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	M197 13-4	TVMUC	19/01/2024 12:30			3939
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10		111100	10/01/2021 12:00			0000
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	M197 13-5	ISP	19/01/2024 12:45	-		3938
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10			10/01/2021 12:10			0000
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	M197 13-5	ISP	19/01/2024 13:01	-		3939
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10			10/01/2021 10:01			0000
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	M197 13-5	ISP	19/01/2024 13:06			3939
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13	M197 13-5	ISP	19/01/2024 13:13			3941
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	M197 13-5	ISP	19/01/2024 13:17	15.481'	29.696'	3938
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					34°	025°	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	M197 13-5	ISP	19/01/2024 13:21	15.484'	29.706'	3940
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					34°	025°	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	M197_13-5	ISP	19/01/2024 13:24	15.484'	29.711'	3936
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	M197_13-5	ISP	19/01/2024 13:26			3940
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					-		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	M197_13-5	ISP	19/01/2024 13:29			3937
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					-		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	M197_13-5	ISP	19/01/2024 13:32			3941
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				40/04/0004 10 05			
13 M197_13-5 ISP 19/01/2024 16:21 15.488' 29.726' 3938 13 M197_13-5 ISP 19/01/2024 16:24 15.488' 29.730' 3942 13 M197_13-5 ISP 19/01/2024 16:24 15.488' 29.730' 3942 13 M197_13-5 ISP 19/01/2024 16:26 15.486' 29.714' 3938 13 M197_13-5 ISP 19/01/2024 16:26 15.486' 29.714' 3938 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 3944 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 3944 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.714' 3944 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 3938 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 3938 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 3938 13 M197_13-5 ISP	13	M197_13-5	ISP	19/01/2024 13:33			3939
13 M197_13-5 ISP 19/01/2024 16:24 34° 025° 13 M197_13-5 ISP 19/01/2024 16:24 15.488' 29.730' 394' 13 M197_13-5 ISP 19/01/2024 16:26 15.486' 29.714' 393' 13 M197_13-5 ISP 19/01/2024 16:26 15.485' 29.714' 393' 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 394' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393'	40			10/01/0004 40.01	-		0000
13 M197_13-5 ISP 19/01/2024 16:24 15.488' 29.730' 3942 13 M197_13-5 ISP 19/01/2024 16:26 15.486' 29.714' 3933 13 M197_13-5 ISP 19/01/2024 16:26 15.486' 29.714' 3933 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 394' 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 394' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 13 M197_013-5 ISP 19/01/2024 16:30 15.487' 29.716' 393'	13	W197_13-5	154	19/01/2024 16:21			3938
13 M197_13-5 ISP 19/01/2024 16:26 34° 025° 13 M197_13-5 ISP 19/01/2024 16:26 15.486' 29.714' 3936 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 3946 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 3946 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 3936 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 3936 34° 025°	10	M107 19 5		10/01/2024 46-04	-		20.40
13 M197_13-5 ISP 19/01/2024 16:26 15.486' 29.714' 3934 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 394' 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 394' 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 394' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 13 M197_03-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 34° 025° 34° 025° 34° 025° 34'	13	IVI 197_13-5	151	19/01/2024 16:24			3942
13 M197_13-5 ISP 19/01/2024 16:28 34° 025° 13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 394' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 34° 025° 34° 025° 34° 32' 34'' 393'	10	M107 12 5		10/01/2024 16:20	-		2020
13 M197_13-5 ISP 19/01/2024 16:28 15.485' 29.714' 394' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 393' 34° 025° 34° 025° 34° 34° 393'	13	IVI 197_10-0		19/01/2024 10:20			<u> </u>
13 M197_13-5 ISP 19/01/2024 16:30 34° 025° 3936 34° 025° 34° 025° 3936 34° 3936 34° 3936 3936 34° 3936	12	M107 13 5		10/01/2024 16:20			30/1
13 M197_13-5 ISP 19/01/2024 16:30 15.487' 29.716' 3936 34° 025°<	13	10-0		10/01/2024 10.20			5341
	13	M197 13-5	ISP	19/01/2024 16:30	-		3038
	13			10/01/2024 10:00			0000
	13	M197 13-5	ISP	19/01/2024 16:33			3940
34° 025°	10			10/01/2027 10:00			0070
	13	M197 13-5	ISP	19/01/2024 16:37			3938

				34°	025°	
13	M197_13-5	ISP	19/01/2024 16:46	15.494'	29.764'	3940
10	M407 40 F	100	40/04/0004 40 50	34°	025°	0007
13	M197_13-5	ISP	19/01/2024 16:52	15.498' 34°	29.785' 025°	3937
13	M197 13-5	ISP	19/01/2024 16:54	34 15.499'	29.794'	3940
10			10/01/2021 10:01	34°	025°	0010
13	M197_13-6	WP2	19/01/2024 17:00	15.499'	29.790'	3938
				34°	025°	
13	M197_13-6	WP2	19/01/2024 17:07	15.499'	29.791'	3941
13	M197 13-6	WP2	19/01/2024 17:15	34° 15.494'	025° 29.760'	3937
13	10197_13-0		19/01/2024 17.13	34°	025°	3931
13	M197 13-7	WP3	19/01/2024 17:18	15.485'	29.738'	3938
				34°	025°	
13	M197_13-7	WP3	19/01/2024 17:25	15.490'	29.735'	3940
10	N407 40 7		40/04/0004 47 04	34°	025°	00.40
13	M197_13-7	WP3	19/01/2024 17:34	15.491' 34°	29.725' 025°	3940
13	M197 13-8	MSN	19/01/2024 17:38	15.502'	29.717'	3936
				34°	025°	0000
13	M197_13-8	MSN	19/01/2024 18:02	15.497'	29.744'	3941
				34°	025°	
13	M197_13-8	MSN	19/01/2024 18:27	15.498'	29.736'	3939
14	M197 14-1	TVMUC	20/01/2024 03:30	33° 43.564'	024° 41.104'	1939
14	14-1		20/01/2024 03.30	43.304 33°	024°	1939
14	M197 14-1	TVMUC	20/01/2024 05:00	43.540'	41.077'	1937
	———			33°	024°	
14	M197_14-1	TVMUC	20/01/2024 05:42	43.522'	41.039'	1938
15	M407 45 4	OTD	20/01/2024 05:52	33°	024°	1054
15	M197_15-1	CTD	20/01/2024 05:53	43.423' 33°	40.810' 024°	1954
15	M197 15-1	СТД	20/01/2024 06:39	43.422'	40.814'	1943
				33°	024°	
15	M197_15-1	CTD	20/01/2024 07:18	43.418'	40.800'	1944
45	M407 45 0		00/04/0004 07:00	33°	024°	10.10
15	M197_15-2	CTD-UC	20/01/2024 07:23	43.420' 33°	40.810' 024°	1946
15	M197 15-2	CTD-UC	20/01/2024 07:30	43.417'	40.790'	1962
				33°	024°	
15	M197_15-2	CTD-UC	20/01/2024 08:14	43.421'	40.818'	1943
	N407 45 0			33°	024°	10.10
15	M197_15-2	CTD-UC	20/01/2024 09:08	43.426' 33°	40.852' 024°	1946
15	M197 15-3	СТД	20/01/2024 09:13	33° 43.424'	40.843'	1942
10				33°	024°	1072
15	M197_15-3	CTD	20/01/2024 09:19	43.423'	40.829'	1940
				33°	024°	
15	M197_15-3	CTD	20/01/2024 09:27	43.421'	40.818'	1943
15	M107 15 4	WP2	20/01/2024 00:45	33° 43 423'	024°	1044
15	M197_15-4		20/01/2024 09:45	43.423' 33°	40.826' 024°	1944
15	M197 15-4	WP2	20/01/2024 09:55	43.421'	40.822'	1944
-				33°	024°	
15	M197_15-4	WP2	20/01/2024 10:08	43.425'	40.846'	1942
45	M107 15 5		20/01/2024 40-44	33° 42.424'	024°	10.40
15	M197_15-5	WP3	20/01/2024 10:11	43.424'	40.841'	1943

45			20/01/2021 10:10	33°	024°	1042
15	M197_15-5	WP3	20/01/2024 10:19	43.420'	40.815'	1943
45			00/04/0004 40 00	33°	024°	40.47
15	M197_15-5	WP3	20/01/2024 10:28	43.421'	40.827'	1947
4.5				33°	024°	10.10
15	M197_15-6	MSN	20/01/2024 10:32	43.424'	40.841'	1942
				33°	024°	
15	M197_15-6	MSN	20/01/2024 10:57	43.423'	40.835'	1943
				33°	024°	
15	M197_15-6	MSN	20/01/2024 11:23	43.420'	40.818'	1943
				33°	024°	
15	M197_15-7	TVMUC	20/01/2024 11:38	43.423'	40.839'	1943
				33°	024°	
15	M197_15-7	TVMUC	20/01/2024 12:20	43.420'	40.817'	1943
				33°	024°	
15	M197_15-7	TVMUC	20/01/2024 12:57	43.418'	40.804'	1947
				33°	024°	
16	M197_16-1	CTD-UC	21/01/2024 08:02	43.571'	41.123'	1939
10	N/107 / 0 /		0.4/0.4/000.4 00.4 7	33°	024°	1000
16	M197_16-1	CTD-UC	21/01/2024 08:17	43.560'	41.113'	1938
10	N407 40 4	OTD U.O	04/04/0004 00 50	33°	024°	1000
16	M197_16-1	CTD-UC	21/01/2024 08:59	43.562'	41.107'	1939
10	M407 40 4		04/04/0004 00 47	33°	024°	4000
16	M197_16-1	CTD-UC	21/01/2024 09:47	43.561'	41.107'	1939
10	M407 40 0		04/04/0004 00 50	33°	024°	1000
16	M197_16-2	WP2	21/01/2024 09:53	43.561' 33°	41.107' 024°	1938
16	M107 16 0		21/01/2024 10:01		-	1020
16	M197_16-2	WP2	21/01/2024 10:01	43.561' 33°	41.107' 024°	1939
16	M197 16-2	WP2	21/01/2024 10:11	33 43.569'	024 41.108'	1939
10	10-2	VVFZ	21/01/2024 10.11	43.509 33°	024°	1939
16	M197 16-3	ISC	21/01/2024 10:17	33 43.567'	41.107'	1939
10	10-5	150	21/01/2024 10.17	33°	024°	1909
16	M197 16-3	ISC	21/01/2024 12:35	44.597'	40.672'	2098
10	WI107_10-0	100	21/01/2024 12:00	33°	024°	2000
16	M197 16-3	ISC	21/01/2024 13:17	44.741'	40.708'	1996
10		100	21/01/2021 10:11	33°	024°	1000
16	M197_16-4	ISP	21/01/2024 13:50	43.573'	41.099'	1938
				33°	024°	
16	M197 16-4	ISP	21/01/2024 13:58	43.574'	41.097'	1939
				33°	024°	
16	M197_16-4	ISP	21/01/2024 14:05	43.575'	41.100'	1939
	_			33°	024°	
16	M197_16-4	ISP	21/01/2024 14:11	43.572'	41.100'	1938
				33°	024°	
16	M197_16-4	ISP	21/01/2024 14:15	43.571'	41.099'	1938
				33°	024°	
16	M197_16-4	ISP	21/01/2024 14:18	43.572'	41.099'	1939
Ι Τ				33°	024°	
16	M197_16-4	ISP	21/01/2024 14:21	43.573'	41.101'	1939
				33°	024°	
16	M197_16-4	ISP	21/01/2024 14:25	43.573'	41.097'	1940
	14407 40 4	105	04/04/0004 44 65	33°	024°	10.11
16	M197_16-4	ISP	21/01/2024 14:27	43.570'	41.102'	1941
10	M407 40 4		04/04/0004 44 04	33°	024°	4000
16	M197_16-4	ISP	21/01/2024 14:31	43.572'	41.099'	1939
16	M197 16-4	ISP	21/01/2024 14:32	33° 43.571'	024° 41.100'	1938
10	WI18/_10-4		21/01/2024 14.32	40.071	41.100	1900

1			1	33°	024°	
16	M197 16-4	ISP	21/01/2024 17:16	43.572'	41.098'	1938
				33°	024°	
16	M197_16-4	ISP	21/01/2024 17:19	43.573'	41.099'	1939
10	M407 40 4	100	04/04/0004 47 04	33°	024°	1000
16	M197_16-4	ISP	21/01/2024 17:21	43.573' 33°	41.100' 024°	1939
16	M197 16-4	ISP	21/01/2024 17:23	33 43.573'	41.100'	1938
				33°	024°	1000
16	M197_16-4	ISP	21/01/2024 17:26	43.573'	41.099'	1939
				33°	024°	
16	M197_16-4	ISP	21/01/2024 17:28	43.572'	41.101'	1937
16	M197 16-4	ISP	21/01/2024 17:33	33° 43.573'	024° 41.100'	1938
10	10-4	101	21/01/2024 17:55	43.373 33°	024°	1900
16	M197 16-4	ISP	21/01/2024 17:41	43.573'	41.097'	1940
				33°	024°	
16	M197_16-4	ISP	21/01/2024 17:49	43.571'	41.100'	1937
10	M407 40 4		04/04/0004 47-54	33°	024°	1011
16	M197_16-4	ISP	21/01/2024 17:51	43.576' 33°	41.099' 024°	1941
16	M197 16-5	WP2	21/01/2024 17:59	43.573'	41.099'	1939
			211011202111100	33°	024°	1000
16	M197_16-5	WP2	21/01/2024 18:06	43.575'	41.095'	1940
				33°	024°	
16	M197_16-5	WP2	21/01/2024 18:13	43.573'	41.093'	1938
16	M197 16-6	WP3	21/01/2024 18:16	33° 43.573'	024° 41.095'	1939
10	10-0	WI 5	21/01/2024 10:10	33°	024°	1909
16	M197_16-6	WP3	21/01/2024 18:32	43.587'	41.099'	1940
				33°	024°	
16	M197_16-6	WP3	21/01/2024 19:03	43.585'	41.097'	1939
16	M197 16-7	MSN	21/01/2024 19:07	33° 43.585'	024° 41.099'	1940
10	WI197_10-7	WON	21/01/2024 19.07	43.303 33°	024°	1340
16	M197_16-7	MSN	21/01/2024 19:31	43.586'	41.099'	1940
				33°	024°	
16	M197_16-7	MSN	21/01/2024 19:57	43.586'	41.100'	1939
16	M197 16-8	ISC	21/01/2024 20:05	33° 43.588'	024° 41.096'	1939
10	10-0	150	21/01/2024 20.03	43.300 33°	024°	1939
16	M197 16-8	ISC	21/01/2024 22:40	45.590'	41.754'	2011
				33°	024°	
16	M197_16-8	ISC	21/01/2024 23:12	45.919'	41.832'	2020
47	N407 47 4	OTD	00/04/0004 04-50	34°	024°	0574
17	M197_17-1	CTD	22/01/2024 04:59	23.084' 34°	52.499' 024°	2571
17	M197 17-1	СТД	22/01/2024 05:57	23.087'	52.499'	2572
			22/01/2021 00:01	34°	024°	2012
17	M197_17-1	CTD	22/01/2024 06:43	23.087'	52.499'	2573
				34°	024°	
17	M197_17-2	CTD-UC	22/01/2024 06:55	23.083'	52.492'	2572
17	M197 17-2	CTD-UC	22/01/2024 07:54	34° 23.087'	024° 52.501'	2573
17	WI 137_17-2		22/01/2024 01.34	23.007 34°	024°	2010
17	M197_17-2	CTD-UC	22/01/2024 08:50	23.084'	52.500'	2571
				34°	024°	
17	M197_17-3	CTD	22/01/2024 08:57	23.086'	52.499'	2568

				34°	024°	
17	M197 17-3	СТД	22/01/2024 09:03	23.087'	52.497'	2570
	—			34°	024°	
17	M197_17-3	CTD	22/01/2024 09:13	23.085'	52.498'	2573
				34°	024°	
17	M197_17-4	ISC	22/01/2024 09:22	23.088'	52.497'	2573
17	M107 17 4	180	22/01/2024 11:42	34°	024°	2275
17	M197_17-4	ISC	22/01/2024 11:42	24.661' 34°	52.467' 024°	2275
17	M197 17-4	ISC	22/01/2024 12:18	24.836'	52.480'	2256
				34°	024°	2200
17	M197_17-5	ISP	22/01/2024 13:01	23.071'	52.476'	2569
				34°	024°	
17	M197_17-5	ISP	22/01/2024 13:08	23.068'	52.480'	2570
				34°	024°	
17	M197_17-5	ISP	22/01/2024 13:16	23.076'	52.503'	2569
17			00/04/0004 40:00	34°	024°	2560
17	M197_17-5	ISP	22/01/2024 13:22	23.075' 34°	52.503' 024°	2569
17	M197 17-5	ISP	22/01/2024 13:28	23.077'	52.507'	2571
17				34°	024°	2011
17	M197 17-5	ISP	22/01/2024 13:32	23.079'	52.500'	2571
				34°	024°	
17	M197_17-5	ISP	22/01/2024 13:36	23.077'	52.503'	2572
				34°	024°	
17	M197_17-5	ISP	22/01/2024 13:39	23.077'	52.505'	2572
47		105		34°	024°	0.5.70
17	M197_17-5	ISP	22/01/2024 13:48	23.078'	52.502'	2573
17	M197 17-5	ISP	22/01/2024 13:49	34° 23.077'	024° 52.503'	2570
17	M197_17-5	101	22/01/2024 13.49	34°	024°	2570
17	M197 17-5	ISP	22/01/2024 16:33	23.078'	52.502'	2571
				34°	024°	2011
17	M197 17-5	ISP	22/01/2024 16:36	23.076'	52.503'	2572
	_			34°	024°	
17	M197_17-5	ISP	22/01/2024 16:39	23.077'	52.505'	2570
				34°	024°	o == /
17	M197_17-5	ISP	22/01/2024 16:42	23.078'	52.505'	2571
17	M197 17-5	ISP	22/01/2024 16:46	34° 23.077'	024° 52.508'	2571
17	M197_17-5	101	22/01/2024 10.40	34°	024°	2571
17	M197 17-5	ISP	22/01/2024 16:54	23.082'	52.502'	2570
				34°	024°	2010
17	M197 17-5	ISP	22/01/2024 17:02	23.083'	52.504'	2573
				34°	024°	
17	M197_17-5	ISP	22/01/2024 17:12	23.081'	52.502'	2571
				34°	024°	
17	M197_17-5	ISP	22/01/2024 17:15	23.082'	52.500'	2572
47	M107 17 6		00/01/0004 47-00	34°	024°	0570
17	M197_17-6	TVMUC	22/01/2024 17:29	23.082' 34°	52.499' 024°	2572
17	M197 17-6	TVMUC	22/01/2024 17:56	34 23.082'	024 52.503'	2572
17				34°	024°	2012
17	M197 17-6	TVMUC	22/01/2024 18:18	23.081'	52.503'	2571
				34°	024°	
17	M197_17-7	WP2	22/01/2024 18:30	23.081'	52.502'	2573
				34°	024°	
17	M197_17-7	WP2	22/01/2024 18:38	23.081'	52.484'	2571

1	l	1	1	34°	024°	1
17	M197 17-7	WP2	22/01/2024 18:46	34 23.076'	024 52.463'	2572
- 17			22/01/2024 10.40	34°	024°	2012
17	M197 17-8	WP3	22/01/2024 18:48	23.078'	52.460'	2568
				34°	024°	
17	M197 17-8	WP3	22/01/2024 19:05	23.077'	52.422'	2568
		-		34°	024°	
17	M197 17-8	WP3	22/01/2024 19:37	23.072'	52.346'	2562
		-		34°	024°	
17	M197 17-9	MSN	22/01/2024 19:41	23.073'	52.351'	2562
				34°	024°	
17	M197 17-9	MSN	22/01/2024 20:05	23.072'	52.364'	2563
	—			34°	024°	
17	M197 17-9	MSN	22/01/2024 20:31	23.072'	52.324'	2562
•	—			34°	024°	
17	M197 17-10	ISC	22/01/2024 20:38	23.071'	52.335'	2563
•	—			34°	024°	
17	M197 17-10	ISC	22/01/2024 22:59	26.172'	52.343'	2122
				34°	024°	
17	M197 17-10	ISC	22/01/2024 23:33	26.425'	52.268'	2121
				34°	023°	
18	M197 18-1	CTD	23/01/2024 06:41	35.641'	56.510'	3193
				34°	023°	
18	M197 18-1	CTD	23/01/2024 07:42	35.641'	56.503'	3192
				34°	023°	
18	M197 18-1	CTD	23/01/2024 08:44	35.640'	56.502'	3193
				34°	023°	0.00
18	M197 18-2	CTD-UC	23/01/2024 08:51	35.640'	56.502'	3192
				34°	023°	
18	M197 18-2	CTD-UC	23/01/2024 10:05	35.641'	56.502'	3192
				34°	023°	
18	M197 18-2	CTD-UC	23/01/2024 11:10	35.641'	56.502'	3189
				34°	023°	
18	M197 18-3	CTD	23/01/2024 11:14	35.638'	56.500'	3188
	—			34°	023°	
18	M197 18-3	CTD	23/01/2024 11:19	35.640'	56.500'	3188
	— —			34°	023°	
18	M197_18-3	CTD	23/01/2024 11:27	35.640'	56.501'	3189
	— —			34°	023°	
18	M197 18-4	TVMUC	23/01/2024 11:38	35.641'	56.500'	3188
	— —			34°	023°	
18	M197_18-4	TVMUC	23/01/2024 12:56	35.641'	56.502'	3191
				34°	023°	
18	M197_18-4	TVMUC	23/01/2024 13:51	35.640'	56.500'	3188
				34°	023°	
18	M197_18-5	ISP	23/01/2024 14:03	35.641'	56.500'	3191
				34°	023°	
18	M197_18-5	ISP	23/01/2024 14:14	35.640'	56.500'	3188
				34°	023°	
18	M197_18-5	ISP	23/01/2024 14:21	35.637'	56.497'	3187
				34°	023°	
18	M197_18-5	ISP	23/01/2024 14:27	35.640'	56.498'	3189
				34°	023°	
18	M197_18-5	ISP	23/01/2024 14:31	35.640'	56.500'	3188
				34°	023°	
18	M197_18-5	ISP	23/01/2024 14:34	35.640'	56.500'	3189
				34°	023°	
18	M197_18-5	ISP	23/01/2024 14:37	35.639'	56.497'	3188
				· · · ·		

				34°	023°	
18	M197_18-5	ISP	23/01/2024 14:39	35.641'	56.500'	3189
				34°	023°	
18	M197_18-5	ISP	23/01/2024 14:42	35.640'	56.499'	3188
10		105		34°	023°	0 4 0 0
18	M197_18-5	ISP	23/01/2024 14:45	35.640'	56.500'	3188
18	M197_18-5	ISP	23/01/2024 14:46	34° 35.640'	023° 56.499'	3189
10	10-5	155	23/01/2024 14.40	33.040 34°	023°	3109
18	M197 18-5	ISP	23/01/2024 17:33	35.640'	56.500'	3188
				34°	023°	
18	M197_18-5	ISP	23/01/2024 17:35	35.640'	56.500'	3188
				34°	023°	
18	M197_18-5	ISP	23/01/2024 17:37	35.640'	56.499'	3187
10		105		34°	023°	0 4 0 0
18	M197_18-5	ISP	23/01/2024 17:39	35.639'	56.498'	3188
10	M107 19 5	ISP	22/01/2024 17:41	34°	023°	2100
18	M197_18-5	15P	23/01/2024 17:41	35.639' 34°	56.498' 023°	3190
18	M197 18-5	ISP	23/01/2024 17:44	34 35.639'	56.500'	3188
10	WI107_10-0		20/01/2024 17.44	34°	023°	0100
18	M197 18-5	ISP	23/01/2024 17:48	35.640'	56.499'	3188
				34°	023°	0.00
18	M197 18-5	ISP	23/01/2024 17:56	35.640'	56.500'	3188
				34°	023°	
18	M197_18-5	ISP	23/01/2024 18:03	35.641'	56.501'	3189
				34°	023°	
18	M197_18-5	ISP	23/01/2024 18:06	35.641'	56.500'	3189
10	N407 40 0			34°	023°	0400
18	M197_18-6	WP2	23/01/2024 18:14	35.640'	56.500'	3188
18	M197 18-6	WP2	23/01/2024 18:21	34° 35.640'	023° 56.501'	3189
10	10-0	VVFZ	23/01/2024 10.21	33.040 34°	023°	3109
18	M197 18-6	WP2	23/01/2024 18:29	35.640'	56.501'	3190
	<u></u>			34°	023°	0100
18	M197_18-7	WP3	23/01/2024 18:32	35.638'	56.499'	3188
				34°	023°	
18	M197_18-7	WP3	23/01/2024 18:38	35.639'	56.497'	3189
				34°	023°	
18	M197_18-7	WP3	23/01/2024 18:46	35.639'	56.498'	3188
18	M107 10 0	MSN	23/01/2024 18:49	34° 35.640'	023° 56.499'	2100
10	M197_18-8	IVIOIN	23/01/2024 10.49	35.640 34°	023°	3188
18	M197 18-8	MSN	23/01/2024 19:13	34 35.640'	56.499'	3188
10				34°	023°	0100
18	M197 18-8	MSN	23/01/2024 19:39	35.640'	56.498'	3188
	—			34°	023°	
19	M197_19-1	CTD	24/01/2024 04:50	30.303'	35.970'	2695
				34°	023°	
19	M197_19-1	CTD	24/01/2024 05:49	30.296'	35.990'	2701
10	M407 40 4	OTD	04/04/0004 00 07	34°	023°	0000
19	M197_19-1	CTD	24/01/2024 06:37	30.296'	35.991'	2698
19	M197 19-2	CTD-UC	24/01/2024 06:55	34° 30.296'	023° 35.993'	2695
19	IVI 197_19-2		24/01/2024 00.00	30.296 34°	023°	2090
19	M197_19-2	CTD-UC	24/01/2024 07:58	34 30.306'	36.001'	2695
		0.2.00		34°	023°	2000
19	M197 19-2	CTD-UC	24/01/2024 08:58	30.293'	35.997'	2695

				34°	023°	I
19	M197_19-3	CTD	24/01/2024 09:06	30.299'	35.996'	2871
10		075		34°	023°	
19	M197_19-3	CTD	24/01/2024 09:12	30.314' 34°	36.001' 023°	2707
19	M197 19-3	СТД	24/01/2024 09:19	34" 30.334'	36.006'	2726
19	10197_19-5		24/01/2024 09.19	30.334 34°	023°	2120
19	M197 19-4	ISC	24/01/2024 09:28	30.342'	36.009'	2728
	· · ·			34°	023°	
19	M197_19-4	ISC	24/01/2024 11:49	31.045'	36.017'	2687
				34°	023°	a= (=
19	M197_19-4	ISC	24/01/2024 12:23	30.706'	36.049'	2715
19	M197 19-5	ISP	24/01/2024 12:36	34° 30.303'	023° 36.004'	2696
13	10-5	101	24/01/2024 12.30	30.303 34°	023°	2090
19	M197 19-5	ISP	24/01/2024 12:45	30.304'	36.001'	2701
	— —			34°	023°	
19	M197_19-5	ISP	24/01/2024 12:53	30.308'	36.003'	2689
		105		34°	023°	0740
19	M197_19-5	ISP	24/01/2024 12:59	30.334' 34°	36.011'	2718
19	M197 19-5	ISP	24/01/2024 13:04	34° 30.319'	023° 36.008'	2709
13	10-5	101	24/01/2024 13.04	34°	023°	2109
19	M197 19-5	ISP	24/01/2024 13:09	30.309'	36.002'	2712
	· · ·			34°	023°	
19	M197_19-5	ISP	24/01/2024 13:12	30.305'	36.003'	2694
				34°	023°	
19	M197_19-5	ISP	24/01/2024 13:14	30.302'	36.001'	2698
19	M197 19-5	ISP	24/01/2024 13:18	34° 30.292'	023° 35.997'	2694
13	10-5	101	24/01/2024 13.10	34°	023°	2094
19	M197 19-5	ISP	24/01/2024 13:21	30.297'	36.000'	2694
	— —			34°	023°	
19	M197_19-5	ISP	24/01/2024 13:22	30.299'	36.001'	2693
		105		34°	023°	
19	M197_19-5	ISP	24/01/2024 16:06	30.303' 34°	36.002'	2693
19	M197_19-5	ISP	24/01/2024 16:08	34 30.312'	023° 36.006'	2699
10	W107_10-0		24/01/2024 10:00	34°	023°	2000
19	M197 19-5	ISP	24/01/2024 16:11	30.325'	36.008'	2695
				34°	023°	
19	M197_19-5	ISP	24/01/2024 16:14	30.332'	36.011'	2712
10	M407 40 F		04/04/0004 40 40	34°	023°	0700
19	M197_19-5	ISP	24/01/2024 16:16	30.331' 34°	36.009' 023°	2723
19	M197 19-5	ISP	24/01/2024 16:21	34 30.312'	36.004'	2722
				34°	023°	
19	M197_19-5	ISP	24/01/2024 16:28	30.308'	36.003'	2698
				34°	023°	
19	M197_19-5	ISP	24/01/2024 16:36	30.306'	36.001'	2696
19	M197 19-5	ISP	24/01/2024 16:47	34° 30.305'	023° 36.001'	2694
19	19191_19-0		24/01/2024 10.47	30.305 34°	023°	2094
19	M197 19-5	ISP	24/01/2024 16:51	30.302'	36.001'	2693
	—			34°	023°	
19	M197_19-6	TVMUC	24/01/2024 17:01	30.303'	36.001'	2697
10	M407 40 0		04/04/0004 40.07	34°	023°	0004
19	M197_19-6	TVMUC	24/01/2024 18:07	30.267'	35.989'	2694

19	M107 10 6	TMUC	24/01/2024 19:56	34° 30.294'	023° 36.023'	2606
19	M197_19-6	TVMUC	24/01/2024 18:56	30.294 34°	023°	2696
10	M107 10 7	WP2	24/01/2024 19:04			2606
19	M197_19-7	VVPZ	24/01/2024 19.04	30.287'	36.037'	2696
10	M407 40 7		04/04/0004 40 44	34°	023°	0007
19	M197_19-7	WP2	24/01/2024 19:11	30.291'	36.032'	2697
				34°	023°	
19	M197_19-7	WP2	24/01/2024 19:19	30.294'	36.026'	2695
				34°	023°	
19	M197_19-8	WP3	24/01/2024 19:22	30.296'	36.025'	2695
				34°	023°	
19	M197_19-8	WP3	24/01/2024 19:37	30.303'	36.017'	2699
				34°	023°	
19	M197 19-8	WP3	24/01/2024 20:10	30.310'	36.007'	2710
				34°	023°	
19	M197 19-9	MSN	24/01/2024 20:13	30.311'	36.004'	2700
				34°	023°	
19	M197 19-9	MSN	24/01/2024 20:37	30.307'	36.009'	2701
10	MINI_100	MON	24/01/2024 20:01	34°	023°	2701
19	M197 19-9	MSN	24/01/2024 21:02	34 30.293'	36.028'	2694
19	IVIIU/_IU-U	WON	24/01/2024 21.02	30.293 34°	023°	2094
10	M407 40 40	100	04/04/0004 04:44	-		0004
19	M197_19-10	ISC	24/01/2024 21:11	30.273'	36.052'	2694
				34°	023°	
19	M197_19-10	ISC	24/01/2024 23:29	31.494'	35.564'	2678
				34°	023°	
19	M197_19-10	ISC	25/01/2024 00:03	31.572'	35.544'	2699
				34°	022°	
20	M197_20-1	CTD	25/01/2024 06:50	47.976'	52.212'	2931
				34°	022°	
20	M197 20-1	CTD	25/01/2024 07:45	47.980'	52.211'	2931
	— —			34°	022°	
20	M197 20-1	CTD	25/01/2024 08:40	48.005'	52.198'	2931
				34°	022°	
20	M197 20-2	CTD-UC	25/01/2024 08:44	48.018'	52.190'	2929
20	MINI_20 2		20/01/2024 00.44	34°	022°	2020
20	M197 20-2	CTD-UC	25/01/2024 09:50	47.978'	52.213'	2928
20	WI 97_20-2		23/01/2024 09.30	34°	022°	2920
20	M197 20-2	CTD-UC	25/01/2024 10:52	34 48.021'	52.189'	2923
20	WI197_20-2		25/01/2024 10.52			2923
00	14407 00 0	OTD	05/04/0004 40 55	34°	022°	0000
20	M197_20-3	CTD	25/01/2024 10:55	48.021'	52.188'	2923
				34°	022°	
20	M197_20-3	CTD	25/01/2024 11:01	48.013'	52.194'	2933
				34°	022°	
20	M197_20-3	CTD	25/01/2024 11:08	48.007'	52.200'	2929
				34°	022°	
20	M197_20-4	ISP	25/01/2024 12:38	47.990'	52.211'	2932
				34°	022°	
20	M197_20-4	ISP	25/01/2024 12:53	47.976'	52.222'	2934
				34°	022°	
20	M197 20-4	ISP	25/01/2024 12:59	47.966'	52.227'	2934
		-		34°	022°	
20	M197 20-4	ISP	25/01/2024 13:06	47.983'	52.216'	2931
20				34°	022°	2001
20	M197 20-4	ISP	25/01/2024 13:10	34 47.998'	52.207'	2932
20	<u></u>		2010 1/2024 10.10	34°	022°	2002
20	M107 20 4	ISP	25/01/2024 12:12	-		2025
20	M197_20-4		25/01/2024 13:13	48.009'	52.199'	2935
20	M107 00 4		25/01/2024 42:47	34°	022°	2022
20	M197_20-4	ISP	25/01/2024 13:17	48.007'	52.200'	2932

20 M197_20-4 ISP 25/01/2024 13:20 48.006' 52.198' 233 20 M197_20-4 ISP 25/01/2024 13:23 48.011' 52.198' 292 20 M197_20-4 ISP 25/01/2024 13:27 48.011' 52.198' 292 20 M197_20-4 ISP 25/01/2024 13:27 48.010' 52.190' 293 20 M197_20-4 ISP 25/01/2024 16:07 47.978' 52.223' 293 20 M197_20-4 ISP 25/01/2024 16:07 47.978' 52.214' 292 20 M197_20-4 ISP 25/01/2024 16:13 47.991' 52.211' 293 20 M197_20-4 ISP 25/01/2024 16:13 47.981' 52.211' 292 20 M197_20-4 ISP 25/01/2024 16:13 47.981' 52.214' 293 20 M197_20-4 ISP 25/01/2024 16:13 47.981' 52.201' 292 20 M197_20-4 ISP 25/01/2024 16:23 4	1 1		1		34°	022°	
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20 M197_20-6 WP2 25/01/2024 19:09 47.950' 52.143' 293 20 M197_20-7 WP3 25/01/2024 19:11 47.949' 52.140' 293 20 M197_20-7 WP3 25/01/2024 19:11 47.949' 52.140' 293 20 M197_20-7 WP3 25/01/2024 19:17 47.895' 52.091' 293 20 M197_20-7 WP3 25/01/2024 19:27 47.851' 52.048' 293 20 M197_20-7 WP3 25/01/2024 19:27 47.851' 52.048' 293 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 34° 022° 34° 022° 34° 022° 20 20 M197_20-8 MSN 25/01/2024 20:19 47.660'	20	M197_20-6	WP2	25/01/2024 19:01		52.181'	2935
20 M197_20-7 WP3 25/01/2024 19:11 34° 022° 20 M197_20-7 WP3 25/01/2024 19:17 47.895' 52.091' 293 20 M197_20-7 WP3 25/01/2024 19:17 47.895' 52.091' 293 20 M197_20-7 WP3 25/01/2024 19:27 47.851' 52.048' 293 20 M197_20-7 WP3 25/01/2024 19:27 47.851' 52.048' 293 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 34° 022° 34° 022° 34° 022° 26/01/2024 20:19 47.660' 51.855' 292 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_21-1 CTD 26					-	-	
20 M197_20-7 WP3 25/01/2024 19:11 47.949' 52.140' 293 20 M197_20-7 WP3 25/01/2024 19:17 47.895' 52.091' 293 20 M197_20-7 WP3 25/01/2024 19:17 47.895' 52.091' 293 20 M197_20-7 WP3 25/01/2024 19:27 47.851' 52.048' 293 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 21 M197_21-1 CTD	20	M197_20-6	WP2	25/01/2024 19:09			2932
20 M197_20-7 WP3 25/01/2024 19:17 34° 022° 20 M197_20-7 WP3 25/01/2024 19:27 47.895' 52.091' 293 20 M197_20-7 WP3 25/01/2024 19:27 47.851' 52.048' 293 20 M197_20-8 MSN 25/01/2024 19:27 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 35° 022° 35° 022° 35° 022° 35	20	M197 20-7	WP3	25/01/2024 10.11	-		2026
20 M197_20-7 WP3 25/01/2024 19:17 47.895' 52.091' 293 20 M197_20-7 WP3 25/01/2024 19:27 47.851' 52.048' 293 20 M197_20-7 WP3 25/01/2024 19:27 47.851' 52.048' 293 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376	20	WI01_20-1					2330
20 M197_20-7 WP3 25/01/2024 19:27 34° 022° 20 M197_20-8 MSN 25/01/2024 19:27 47.851' 52.048' 293 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376	20	M197_20-7	WP3	25/01/2024 19:17	-		2936
20 M197_20-8 MSN 25/01/2024 19:31 34° 022° 20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376					34°	022°	
20 M197_20-8 MSN 25/01/2024 19:31 47.843' 52.039' 292 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376	20	M197_20-7	WP3	25/01/2024 19:27			2930
20 M197_20-8 MSN 25/01/2024 19:54 34° 022° 20 M197_20-8 MSN 25/01/2024 20:19 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 35° 022° 35° 022° 376 35° 35° 292	20	M107 00 9	MON	25/01/2024 40:24	-		2027
20 M197_20-8 MSN 25/01/2024 19:54 47.759' 51.955' 291 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 20 M197_20-8 MSN 25/01/2024 20:19 47.660' 51.855' 292 21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 35° 022° 35° 022° 35° 022° 376	20	IVI 191_20-8	NON	25/01/2024 19:31			2921
20 M197_20-8 MSN 25/01/2024 20:19 34° 022° 21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 35° 022° 35° 022° 376	20	M197 20-8	MSN	25/01/2024 19:54			2918
21 M197_21-1 CTD 26/01/2024 04:56 35° 10.500' 022° 46.549' 376 35° 022° <							
21 M197_21-1 CTD 26/01/2024 04:56 10.500' 46.549' 376 35° 022° </td <td>20</td> <td>M197_20-8</td> <td>MSN</td> <td>25/01/2024 20:19</td> <td></td> <td></td> <td>2922</td>	20	M197_20-8	MSN	25/01/2024 20:19			2922
				00/04/0004 515		-	
	21	M197_21-1	CID	26/01/2024 04:56			3761
T ZT TVTRUZELET TVTRU TVTRU TZUVU UZUZE UD UZ TU 499 T40.040 T 370	21	M197 21-1	СТР	26/01/2024 06:07			3756
35° 022°	<u></u>	W137_21-1		20/01/2024 00.07			5150
	21	M197_21-1	CTD	26/01/2024 07:14			3758

1	I	1	1	35°	022°	I
21	M197 21-2	CTD-UC	26/01/2024 07:19	10.495'	46.559'	3757
			20/01/2021 01110	35°	022°	0101
21	M197_21-2	CTD-UC	26/01/2024 08:46	10.500'	46.565'	3771
				35°	022°	
21	M197_21-2	CTD-UC	26/01/2024 09:59	10.514'	46.584'	3771
		075		35°	022°	
21	M197_21-3	CTD	26/01/2024 10:02	10.511' 35°	46.581'	3770
21	M197 21-3	CTD	26/01/2024 10:08	35 10.504'	022° 46.572'	3772
21	<u></u>		20/01/2024 10:00	35°	022°	5112
21	M197 21-3	CTD	26/01/2024 10:16	10.497'	46.561'	3775
				35°	022°	
21	M197_21-4	ISC	26/01/2024 10:26	10.496'	46.558'	3770
				35°	022°	
21	M197_21-4	ISC	26/01/2024 12:47	11.285'	47.681'	3768
21	M197 21-4	ISC	26/01/2024 13:20	35° 11.386'	022° 47.827'	3773
21	1/1197_21-4	130	20/01/2024 13.20	35°	47.827 022°	3113
21	M197 21-5	ISP	26/01/2024 13:51	10.506'	46.562'	3771
				35°	022°	••••
21	M197_21-5	ISP	26/01/2024 14:02	10.509'	46.562'	3771
				35°	022°	
21	M197_21-5	ISP	26/01/2024 14:10	10.503'	46.559'	3771
01		100	00/04/0004 44 40	35°	022°	0770
21	M197_21-5	ISP	26/01/2024 14:16	10.500' 35°	46.556' 022°	3773
21	M197 21-5	ISP	26/01/2024 14:23	10.496'	46.553'	3771
21			20/01/2024 14.20	35°	022°	0111
21	M197_21-5	ISP	26/01/2024 14:27	10.491'	46.551'	3773
				35°	022°	
21	M197_21-5	ISP	26/01/2024 14:30	10.496'	46.553'	4513
		100		35°	022°	0740
21	M197_21-5	ISP	26/01/2024 14:34	10.494' 35°	46.552' 022°	3742
21	M197 21-5	ISP	26/01/2024 14:38	35 10.489'	46.549'	3773
21	<u></u>		20/01/2024 14:00	35°	022°	0110
21	M197_21-5	ISP	26/01/2024 14:41	10.487'	46.548'	3773
				35°	022°	
21	M197_21-5	ISP	26/01/2024 14:42	10.486'	46.548'	3774
	M407 04 5		00/04/0004 47 00	35°	022°	00.40
21	M197_21-5	ISP	26/01/2024 17:26	10.498' 35°	46.554' 022°	3942
21	M197 21-5	ISP	26/01/2024 17:28	35 10.489'	022 46.552'	3772
<u> </u>				35°	022°	5112
21	M197_21-5	ISP	26/01/2024 17:31	10.473'	46.550'	3774
				35°	022°	
21	M197_21-5	ISP	26/01/2024 17:34	10.472'	46.551'	3772
	N407 04 5	100	00/04/0004 17 55	35°	022°	0774
21	M197_21-5	ISP	26/01/2024 17:36	10.467' 35°	46.552' 022°	3774
21	M197 21-5	ISP	26/01/2024 17:39	35° 10.477'	46.553'	3772
<u></u>			2010 112024 11.39	35°	022°	5112
21	M197 21-5	ISP	26/01/2024 17:47	10.490'	46.553'	3771
				35°	022°	
21	M197_21-5	ISP	26/01/2024 17:55	10.495'	46.551'	3946
04	M407 04 5		00/04/0004 40.05	35°	022°	0774
21	M197_21-5	ISP	26/01/2024 18:05	10.496'	46.552'	3774

				35°	022°	
21	M197_21-5	ISP	26/01/2024 18:09	10.499'	46.551'	3949
				35°	022°	
21	M197_21-6	TVMUC	26/01/2024 18:21	10.479'	46.555'	4019
01	M407 04 0		00/04/0004 40:00	35°	022°	0774
21	M197_21-6	TVMUC	26/01/2024 19:32	10.469' 35°	46.555' 022°	3771
21	M107 21 6	TVMUC	26/01/2024 20:24	35° 10.579'	46.545'	2771
21	M197_21-6	TVINUC	20/01/2024 20.24	35°	40.545 022°	3771
21	M197 21-7	WP2	26/01/2024 20:39	10.584'	46.543'	3773
21			20/01/2024 20:00	35°	022°	0110
21	M197 21-7	WP2	26/01/2024 20:46	10.590'	46.542'	3770
			20/01/2021 20110	35°	022°	0110
21	M197 21-7	WP2	26/01/2024 20:53	10.587'	46.543'	3773
				35°	022°	
21	M197 21-8	WP3	26/01/2024 20:56	10.584'	46.543'	3774
	—			35°	022°	
21	M197_21-8	WP3	26/01/2024 21:02	10.577'	46.542'	3774
				35°	022°	
21	M197_21-8	WP3	26/01/2024 21:11	10.576'	46.541'	3773
				35°	022°	
21	M197_21-9	MSN	26/01/2024 21:16	10.577'	46.541'	3772
				35°	022°	
21	M197_21-9	MSN	26/01/2024 21:41	10.550'	46.545'	3771
				35°	022°	
21	M197_21-9	MSN	26/01/2024 22:07	10.574'	46.543'	3772
				35°	022°	
21	M197_21-10	ISC	26/01/2024 22:13	10.563'	46.544'	3772
0.1	N4407 04 40	100	07/04/0004 00 00	35°	022°	0704
21	M197_21-10	ISC	27/01/2024 00:36	12.003'	45.889'	3764
01	M407 04 40	100	07/04/0004 04:40	35°	022°	0704
21	M197_21-10	ISC	27/01/2024 01:10	12.142' 35°	45.633' 022°	3764
22	M197 22-1	CTD	27/01/2024 05:52	35 33.144'	37.786'	4550
	101197_22-1		21/01/2024 05.52	35°	022°	4559
22	M197 22-1	CTD	27/01/2024 07:28	33.139'	37.784'	4559
	MI 37_22-1		2110112024 01.20	35°	022°	4000
22	M197_22-1	CTD	27/01/2024 08:58	33.193'	37.823'	4573
		010	2110 11202 1 00.00	35°	022°	1010
22	M197 22-2	CTD-UC	27/01/2024 09:04	33.199'	37.826'	4570
				35°	022°	
22	M197 22-2	CTD-UC	27/01/2024 10:44	33.173'	37.806'	4602
	_			35°	022°	
22	M197_22-2	CTD-UC	27/01/2024 12:16	33.141'	37.818'	4593
				35°	022°	
22	M197_22-3	CTD	27/01/2024 12:19	33.144'	37.801'	4600
				35°	022°	
22	M197_22-3	CTD	27/01/2024 12:27	33.141'	37.814'	4594
				35°	022°	
22	M197_22-3	CTD	27/01/2024 12:35	33.135'	37.849'	4593
			07/04/0004 40 44	35°	022°	4500
22	M197_22-4	ISP	27/01/2024 13:44	33.144'	37.799'	4598
	M107 00 4		07/04/0004 40-54	35°	022°	4640
22	M197_22-4	ISP	27/01/2024 13:54	33.145' 35°	37.799' 022°	4610
22	M197 22-4	ISP	27/01/2024 14:01	35' 33.149'	37.782'	4603
	IVI I 37 _22-4		21/01/2024 14.01	35°	022°	4003
22	M197 22-4	ISP	27/01/2024 14:07	33.147'	37.790'	4606
22	WI 01_22-4		21/01/2024 14.07	00.147	51.130	+000

1		I		35°	022°	1
22	M197_22-4	ISP	27/01/2024 14:12	33.145'	37.798'	4598
				35°	022°	
22	M197_22-4	ISP	27/01/2024 14:16	33.148'	37.783'	4605
22	M407 00 4	ISP	27/01/2024 14:20	35°	022°	4600
22	M197_22-4	15P	27/01/2024 14:20	33.146' 35°	37.791' 022°	4602
22	M197 22-4	ISP	27/01/2024 14:23	33.149'	37.778'	4604
				35°	022°	
22	M197_22-4	ISP	27/01/2024 14:27	33.149'	37.784'	4603
				35°	022°	
22	M197_22-4	ISP	27/01/2024 14:31	33.151' 35°	37.767' 022°	4600
22	M197 22-4	ISP	27/01/2024 14:32	33.152'	37.766'	4602
				35°	022°	4002
22	M197_22-4	ISP	27/01/2024 17:13	33.147'	37.784'	4591
				35°	022°	
22	M197_22-4	ISP	27/01/2024 17:15	33.147'	37.783'	4592
22	M107 22 4	ISP	27/01/2024 17:17	35°	022°	4502
	M197_22-4	15P	27/01/2024 17.17	33.145' 35°	37.782' 022°	4593
22	M197 22-4	ISP	27/01/2024 17:19	33.143'	37.781'	4593
				35°	022°	
22	M197_22-4	ISP	27/01/2024 17:21	33.143'	37.779'	4593
				35°	022°	
22	M197_22-4	ISP	27/01/2024 17:24	33.141' 35°	37.778'	4593
22	M197 22-4	ISP	27/01/2024 17:28	35' 33.136'	022° 37.773'	4590
	W107_22-4		21/01/2024 11:20	35°	022°	4000
22	M197_22-4	ISP	27/01/2024 17:35	33.127'	37.763'	4591
				35°	022°	
22	M197_22-4	ISP	27/01/2024 17:42	33.117'	37.751'	4599
22	M197 22-4	ISP	27/01/2024 17:45	35° 33.116'	022° 37.749'	4594
	101197_22-4		21/01/2024 17.43	35°	022°	4004
22	M197 22-5	TVMUC	27/01/2024 17:52	33.122'	37.756'	4589
				35°	022°	
22	M197_22-5	TVMUC	27/01/2024 19:43	33.168'	37.809'	4595
22	M197 22-5	TVMUC	27/01/2024 21:00	35° 33.189'	022° 37.833'	4592
	WI 97_22-3		21/01/2024 21.00	35°	022°	4092
22	M197_22-6	WP2	27/01/2024 21:06	33.184'	37.827'	4592
				35°	022°	
22	M197_22-6	WP2	27/01/2024 21:19	33.124'	37.848'	4590
20	M107 00 6	W/D2	07/01/2024 04:00	35°	022°	4500
22	M197_22-6	WP2	27/01/2024 21:28	33.132' 35°	37.839' 022°	4592
22	M197 22-7	WP3	27/01/2024 21:31	33.135'	37.849'	4590
				35°	022°	
22	M197_22-7	WP3	27/01/2024 21:47	33.162'	37.825'	4593
				35°	022°	
22	M197_22-7	WP3	27/01/2024 22:21	33.218'	37.780'	4601
22	M197 22-8	MSN	27/01/2024 22:25	35° 33.219'	022° 37.785'	4597
	WI 01_22-0		211011202722.23	35°	022°	1531
22	M197_22-8	MSN	27/01/2024 22:50	33.185'	37.729'	4592
				35°	022°	
22	M197_22-8	MSN	27/01/2024 23:16	33.156'	37.686'	4590

				35°	022°	
23	M197_23-1	CTD	28/01/2024 04:54	26.473'	00.556'	3587
				35°	022°	
23	M197_23-1	CTD	28/01/2024 04:58	26.473' 35°	00.556' 022°	3589
23	M197 23-1	СТД	28/01/2024 05:23	35° 26.473'	022" 00.555'	3594
23	101197_23-1		20/01/2024 03.23	35°	00.333 022°	3334
23	M197 23-1	CTD	28/01/2024 06:35	26.474'	00.554'	3573
				35°	022°	
23	M197_23-1	CTD	28/01/2024 07:38	26.474'	00.552'	3583
23	M197 23-2	CTD-UC	20/01/2024 07:44	35° 26.474'	022° 00.553'	3595
23	101197_23-2		28/01/2024 07:44	20.474 35°	00.555 022°	3090
23	M197 23-2	CTD-UC	28/01/2024 09:04	26.473'	00.555'	3576
				35°	022°	
23	M197_23-2	CTD-UC	28/01/2024 10:16	26.449'	00.543'	3578
	N407 00 0	075	00/04/0004 40 00	35°	022°	0505
23	M197_23-3	CTD	28/01/2024 10:20	26.448' 35°	00.544' 022°	3585
23	M197 23-3	СТД	28/01/2024 10:37	35 26.447'	022 00.545'	3573
20		010	20/01/2024 10:01	35°	022°	0010
23	M197_23-3	CTD	28/01/2024 10:44	26.446'	00.544'	3581
				35°	022°	
23	M197_23-4	ISC	28/01/2024 10:57	26.446'	00.546'	3579
23	M107 02 /	ISC	28/01/2024 13:19	35° 26.792'	022°	5201
23	M197_23-4	130	20/01/2024 13.19	26.792 35°	01.052' 022°	5321
23	M197 23-4	ISC	28/01/2024 13:54	26.577'	00.861'	3721
				35°	022°	-
23	M197_23-5	WP2	28/01/2024 18:00	26.456'	00.575'	3590
00	M407 00 F		00/04/0004 40 07	35°	022°	0505
23	M197_23-5	WP2	28/01/2024 18:07	26.455' 35°	00.571' 022°	3585
23	M197 23-5	WP2	28/01/2024 18:15	35 26.463'	022 00.568'	3563
			20/01/2021 10110	35°	022°	0000
23	M197_23-6	WP3	28/01/2024 18:18	26.465'	00.564'	3582
	N/107 00 0			35°	022°	0.500
23	M197_23-6	WP3	28/01/2024 18:25	26.471' 35°	00.558' 022°	3568
23	M197 23-6	WP3	28/01/2024 18:32	35 26.467'	022 00.559'	3574
			20/01/2021 10:02	35°	022°	0071
23	M197_23-7	MSN	28/01/2024 18:38	26.474'	00.551'	3589
				35°	022°	
23	M197_23-7	MSN	28/01/2024 19:02	26.441'	00.579'	3580
23	M197 23-7	MSN	28/01/2024 19:27	35° 26.473'	022° 00.542'	3589
	WI 107_20-7		20/01/2024 13.21	20.473 35°	00.542 021°	2009
24	M197_24-1	CTD	29/01/2024 06:12	19.757'	40.607'	3604
				35°	021°	
24	M197_24-1	CTD	29/01/2024 07:21	19.791'	40.566'	3604
04	M407 04 4	CTD	00/04/0004 00-50	35°	021°	2005
24	M197_24-1	CTD	29/01/2024 08:50	19.782' 35°	40.557' 021°	3605
24	M197 24-2	CTD-UC	29/01/2024 08:53	35 19.791'	40.551'	3604
	····_=· =			35°	021°	
24	M197_24-2	CTD-UC	29/01/2024 10:11	19.744'	40.573'	3605
	M407 04 0		00/04/0004 44 00	35°	021°	0000
24	M197_24-2	CTD-UC	29/01/2024 11:22	19.774'	40.527'	3602

24 M197_24-3 CTD 29/01/2024 11:26 19.773' 40.535' 24 M197_24-3 CTD 29/01/2024 11:33 19.774' 40.532' 24 M197_24-3 CTD 29/01/2024 11:33 19.774' 40.532' 24 M197_24-3 CTD 29/01/2024 11:40 19.781' 40.565' 24 M197_24-4 WP2 29/01/2024 11:47 19.785' 40.563' 24 M197_24-4 WP2 29/01/2024 11:55 19.782' 40.566' 24 M197_24-4 WP2 29/01/2024 11:55 19.782' 40.560' 24 M197_24-4 WP2 29/01/2024 12:03 19.773' 40.540' 24 M197_24-5 ISP 29/01/2024 13:24 19.763' 40.544' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.550' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550'	3603 3607 3604 3584 3605 3606 3606 3607 3605 3607
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	3604 3584 3605 3606 3606 3607 3605
24 M197_24-3 CTD 29/01/2024 11:40 19.781' 40.565' 24 M197_24-4 WP2 29/01/2024 11:47 19.785' 40.563' 24 M197_24-4 WP2 29/01/2024 11:55 19.785' 40.560' 24 M197_24-4 WP2 29/01/2024 11:55 19.782' 40.560' 24 M197_24-4 WP2 29/01/2024 12:03 19.773' 40.549' 24 M197_24-5 ISP 29/01/2024 13:24 19.763' 40.544' 24 M197_24-5 ISP 29/01/2024 13:24 19.763' 40.544' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:36 19.758' 40.541'	3584 3605 3606 3606 3607 3605
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	3584 3605 3606 3606 3607 3605
24 M197_24-4 WP2 29/01/2024 11:47 19.785' 40.563' 24 M197_24-4 WP2 29/01/2024 11:55 19.782' 40.560' 24 M197_24-4 WP2 29/01/2024 11:55 19.782' 40.560' 24 M197_24-4 WP2 29/01/2024 12:03 19.773' 40.549' 24 M197_24-5 ISP 29/01/2024 13:24 19.763' 40.544' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.544' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.544' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:32 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:36 19.758' 40.541' 24 M197_24-5 ISP 29/01/2024 13:46 19.758'	3605 3606 3606 3607 3605
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	3605 3606 3606 3607 3605
24 M197_24-4 WP2 29/01/2024 11:55 19.782' 40.560' 24 M197_24-4 WP2 29/01/2024 12:03 19.773' 40.549' 24 M197_24-5 ISP 29/01/2024 13:24 19.763' 40.544' 24 M197_24-5 ISP 29/01/2024 13:24 19.763' 40.544' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541'	3606 3606 3607 3605
24 M197_24-4 WP2 29/01/2024 12:03 19.773' 40.549' 24 M197_24-5 ISP 29/01/2024 13:24 19.763' 40.544' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541'	3606 3607 3605
24 M197_24-5 ISP 29/01/2024 13:24 35° 021° 24 M197_24-5 ISP 29/01/2024 13:24 19.763' 40.544' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 35° 021° 35° 021° 35° 021° 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541'	3606 3607 3605
24 M197_24-5 ISP 29/01/2024 13:24 19.763' 40.544' 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:32 19.763' 40.531' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541' 35° 021° 35° 021° 35° 021°	3607 3605
24 M197_24-5 ISP 29/01/2024 13:32 35° 021° 24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541'	3607 3605
24 M197_24-5 ISP 29/01/2024 13:32 19.753' 40.531' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541' 35° 021° 35° 021° 35° 021°	3605
24 M197_24-5 ISP 29/01/2024 13:38 35° 021° 24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541' 29/01/2024 13:46 35° 021° 35° 021°	3605
24 M197_24-5 ISP 29/01/2024 13:38 19.764' 40.550' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541' 24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541' 35° 021° 35° 021° 021° 021°	
24 M197_24-5 ISP 29/01/2024 13:46 35° 19.758' 021° 40.541' 35° 021°	
24 M197_24-5 ISP 29/01/2024 13:46 19.758' 40.541' 35° 021° 021° 021° 021° 021° 021°	3607
	3007
24 M197 24-5 ISP 29/01/2024 13:51 19.754' 40.533'	3606
<u>24 MIST_24-5 ISI 25/01/2024 ISI 15/754 40.000</u> 35° 021°	0000
24 M197 24-5 ISP 29/01/2024 13:56 19.758' 40.531'	3607
24 M197 24-5 ISP 29/01/2024 14:00 19.769' 40.524'	3608
24 M197_24-5 ISP 29/01/2024 14:03 19.779' 40.525'	3606
24 M197_24-5 ISP 29/01/2024 14:06 19.779' 40.524'	3605
35° 021°	
24 M197_24-5 ISP 29/01/2024 14:09 19.779' 40.510'	3606
	0005
24 M197_24-5 ISP 29/01/2024 14:10 19.783' 40.508'	3605
24 M197 24-5 ISP 29/01/2024 16:53 19.789' 40.572'	3605
24 M197_24-5 13F 29/01/2024 10.55 19.769 40.572 35° 021°	3003
24 M197_24-5 ISP 29/01/2024 16:55 19.789' 40.573'	3613
<u>35°</u> 021°	0010
24 M197 24-5 ISP 29/01/2024 16:58 19.790' 40.572'	3601
24 M197_24-5 ISP 29/01/2024 16:59 19.791' 40.570'	3592
24 M197_24-5 ISP 29/01/2024 17:01 19.790' 40.569'	3593
35° 021°	
24 M197_24-5 ISP 29/01/2024 17:03 19.791' 40.570'	3605
	0000
24 M197_24-5 ISP 29/01/2024 17:07 19.791' 40.572'	3606
24 M107 24 5 ISB 20/01/2024 17:15 10 700' 40 571'	2507
24 M197_24-5 ISP 29/01/2024 17:15 19.790' 40.571' 35° 021° 021° 021° 021° 021° 021°	3587
24 M197 24-5 ISP 29/01/2024 17:23 19.791' 40.570'	3604
<u>24 M137_24-5 13F 23/01/2024 17.25 13.791 40.570</u> 35° 021°	
24 M197 24-5 ISP 29/01/2024 17:25 19.791' 40.572'	3582
<u>35°</u> 021°	
24 M197_24-6 TVMUC 29/01/2024 17:31 19.790' 40.569'	3586
24 M197_24-6 TVMUC 29/01/2024 18:41 19.792' 40.571'	3604

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				35°	021°	
24	M197_24-6	TVMUC	29/01/2024 19:28	19.790'	40.572'	3575
	N407 04 0	T (())		35°	021°	0000
24	M197_24-6	TVMUC	29/01/2024 19:34	19.790' 35°	40.571'	3609
24	M197 24-6	TVMUC	29/01/2024 19:54	35° 19.787'	021° 40.570'	3605
24	MT97_24-0		29/01/2024 19.34	35°	40.370 021°	3003
24	M197 24-6	TVMUC	29/01/2024 20:09	19.793'	40.563'	3604
	_			35°	021°	
24	M197_24-7	WP2	29/01/2024 20:19	19.794'	40.559'	3604
				35°	021°	
24	M197_24-7	WP2	29/01/2024 20:25	19.798'	40.558'	3604
0.4	1407 04 7		00/04/0004 00 00	35°	021°	0574
24	M197_24-7	WP2	29/01/2024 20:33	<u>19.821'</u> 35°	40.526' 021°	3571
24	M197 24-8	WP3	29/01/2024 20:36	35 19.822'	40.523'	3603
27	WI137_24-0	VVI 5	23/01/2024 20:30	35°	021°	5005
24	M197 24-8	WP3	29/01/2024 20:52	19.941'	40.421'	3534
	_			35°	021°	
24	M197_24-8	WP3	29/01/2024 21:24	20.101'	40.290'	3456
				35°	021°	
24	M197_24-9	MSN	29/01/2024 21:28	20.098'	40.296'	3455
				35°	021°	0.400
24	M197_24-9	MSN	29/01/2024 21:52	20.188'	40.230'	3468
24	M197 24-9	MSN	20/01/2024 22:10	35° 20.301'	021° 40.142'	2502
24	M197_24-9		29/01/2024 22:18	20.301 35°	40.142 021°	3503
25	M197 25-1	СТД	30/01/2024 05:00	55.597'	26.727'	4107
				35°	021°	
25	M197_25-1	CTD	30/01/2024 06:24	55.592'	26.731'	4111
	—			35°	021°	
25	M197_25-1	CTD	30/01/2024 07:38	55.595'	26.733'	4109
				35°	021°	
25	M197_25-2	CTD-UC	30/01/2024 07:44	55.594'	26.733'	4109
25	M197 25-2	CTD-UC	30/01/2024 09:13	35° 55.595'	021° 26.732'	4110
25	MT37_23-2		30/01/2024 03.13	35°	021°	4110
25	M197 25-2	CTD-UC	30/01/2024 10:32	55.590'	26.734'	4107
				35°	021°	-
25	M197_25-3	CTD	30/01/2024 10:35	55.591'	26.731'	4104
				35°	021°	
25	M197_25-3	CTD	30/01/2024 10:42	55.590'	26.732'	4103
0.5	M407 05 0		00/04/0004 40 40	35°	021°	4404
25	M197_25-3	CTD	30/01/2024 10:49	55.591' 35°	26.731' 021°	4104
25	M197 25-4	ISC	30/01/2024 10:56	35° 55.590'	021° 26.732'	4104
20	<u></u>		50/01/2024 10.00	35°	021°	
25	M197 25-4	ISC	30/01/2024 13:21	56.708'	29.537'	3883
	_			35°	021°	
25	M197_25-4	ISC	30/01/2024 13:57	56.845'	29.963'	3834
				35°	021°	
25	M197_25-5	ISP	30/01/2024 14:45	55.637'	26.766'	4105
~			20/04/20204 44 54	35°	021°	4400
25	M197_25-5	ISP	30/01/2024 14:54	55.620' 35°	26.758' 021°	4106
25	M197 25-5	ISP	30/01/2024 15:05	35 55.605'	26.747'	4112
20			00/01/2024 10:00	35°	021°	7114
	M197 25-5	ISP	30/01/2024 15:13	55.595'	26.738'	4108

I		1	1	35°	021°	1
25	M197 25-5	ISP	30/01/2024 15:18	55.587'	26.728'	4111
				35°	021°	
25	M197_25-5	ISP	30/01/2024 15:26	55.589'	26.731'	4109
				35°	021°	
25	M197_25-5	ISP	30/01/2024 15:29	55.590'	26.730'	4109
25	M197 25-5	ISP	30/01/2024 15:32	35° 55.589'	021° 26.732'	4110
23	101197_23-3		30/01/2024 13.32	35°	021°	4110
25	M197 25-5	ISP	30/01/2024 15:36	55.589'	26.728'	4110
				35°	021°	
25	M197_25-5	ISP	30/01/2024 15:42	55.588'	26.732'	4110
05		100	00/04/0004 45 40	35°	021°	4407
25	M197_25-5	ISP	30/01/2024 15:42	55.588' 35°	26.732' 021°	4107
25	M197 25-5	ISP	30/01/2024 18:18	35 55.592'	26.730'	4108
20	101107_20-0		30/01/2024 10:10	35°	021°	4100
25	M197 25-5	ISP	30/01/2024 18:19	55.591'	26.729'	4106
	_			35°	021°	
25	M197_25-5	ISP	30/01/2024 18:23	55.590'	26.726'	4107
0.5		100	00/04/0004 40 05	35°	021°	4400
25	M197_25-5	ISP	30/01/2024 18:25	55.591' 35°	26.732' 021°	4108
25	M197 25-5	ISP	30/01/2024 18:28	35 55.590'	26.730'	4108
20	W107_20-0		30/01/2024 10:20	35°	021°	4100
25	M197 25-5	ISP	30/01/2024 18:35	55.590'	26.732'	4108
				35°	021°	
25	M197_25-5	ISP	30/01/2024 18:39	55.590'	26.729'	4108
05		100	00/04/0004 40 47	35°	021°	4400
25	M197_25-5	ISP	30/01/2024 18:47	55.589' 35°	26.733' 021°	4108
25	M197 25-5	ISP	30/01/2024 18:57	55.592'	26.728'	4110
20	<u></u>		00/01/2024 10:01	35°	021°	VITE
25	M197_25-5	ISP	30/01/2024 19:00	55.590'	26.730'	4107
				35°	021°	
25	M197_25-6	TVMUC	30/01/2024 19:06	55.591'	26.729'	4108
25	M197_25-6	TVMUC	30/01/2024 20:00	35° 55.591'	021° 26.728'	4107
23	101197_23-0		30/01/2024 20.00	35°	021°	4107
25	M197 25-6	TVMUC	30/01/2024 20:42	55.591'	26.729'	4108
_				35°	021°	
25	M197_25-7	WP2	30/01/2024 20:49	55.592'	26.729'	4108
~-	N407 05 7		00/04/0004 00 55	35°	021°	
25	M197_25-7	WP2	30/01/2024 20:55	55.589' 35°	26.728' 021°	4110
25	M197 25-7	WP2	30/01/2024 21:03	35° 55.592'	021° 26.728'	4110
2.5	<u></u>		50/01/2027 21.00	35°	021°	0117
25	M197_25-8	WP3	30/01/2024 21:06	55.590'	26.729'	4109
				35°	021°	
25	M197_25-8	WP3	30/01/2024 21:18	55.590'	26.728'	4107
05	M107 05 9	W/D2	20/01/2024 04-22	35°	021°	A A A F
25	M197_25-8	WP3	30/01/2024 21:32	55.591' 35°	26.728' 021°	4115
25	M197 25-9	MSN	30/01/2024 21:46	55.589'	26.728'	4108
				35°	021°	
25	M197_25-9	MSN	30/01/2024 22:11	55.591'	26.729'	4108
	N407 05 0	MON	00/04/0004 00 00	35°	021°	1100
25	M197_25-9	MSN	30/01/2024 22:36	55.592'	26.725'	4108

25	M197 25-10	ISC	30/01/2024 22:41	35° 55.592'	021° 26.729'	4110
23	101197_23-10	150	30/01/2024 22.41	35°	021°	4110
25	M197 25-10	ISC	31/01/2024 00:59	58.012'	26.982'	3776
				35°	021°	
25	M197_25-10	ISC	31/01/2024 01:32	58.202'	27.036'	3711
				36°	021°	
26	M197_26-1	CTD	31/01/2024 06:49	33.707'	06.402'	5111
26	M197 26-1	CTD	31/01/2024 07:11	36° 33.708'	021° 06.400'	5111
20	101197_20-1		31/01/2024 07.11	36°	00.400 021°	5111
26	M197 26-1	CTD	31/01/2024 07:26	33.710'	06.398'	5107
				36°	021°	
26	M197_26-1	CTD	31/01/2024 07:36	33.709'	06.403'	5107
				36°	021°	
26	M197_26-1	CTD	31/01/2024 09:13	33.709'	06.401'	5111
00	14407 00 4		04/04/0004 40 44	36°	021°	5405
26	M197_26-1	CTD	31/01/2024 10:41	33.710' 36°	06.399' 021°	5105
26	M197 26-2	CTD-UC	31/01/2024 11:00	30 33.710'	021 06.400'	5107
20	WI107_20-2		01/01/2024 11:00	36°	021°	0107
26	M197 26-2	CTD-UC	31/01/2024 12:48	33.711'	06.400'	5106
	—			36°	021°	
26	M197_26-2	CTD-UC	31/01/2024 14:25	33.710'	06.399'	5108
				36°	021°	
26	M197_26-3	CTD	31/01/2024 14:29	33.710'	06.399'	5108
26	M197 26-3	CTD	31/01/2024 14:37	36° 33.710'	021° 06.400'	5109
20	101197_20-3		51/01/2024 14.57	36°	00.400 021°	5109
26	M197 26-3	CTD	31/01/2024 14:44	33.710'	06.399'	5105
				36°	021°	0100
26	M197_26-4	ISP	31/01/2024 15:47	33.710'	06.399'	5108
				36°	021°	
26	M197_26-4	ISP	31/01/2024 15:53	33.711'	06.399'	5105
00	N407 00 4		04/04/0004 40:04	36°	021°	F407
26	M197_26-4	ISP	31/01/2024 16:01	33.710' 36°	06.398' 021°	5107
26	M197 26-4	ISP	31/01/2024 16:09	33.711'	06.399'	5106
				36°	021°	0100
26	M197_26-4	ISP	31/01/2024 16:13	33.710'	06.398'	5112
				36°	021°	
26	M197_26-4	ISP	31/01/2024 16:16	33.710'	06.400'	5108
	M407 00 4		24/04/0004 40 40	36°	021°	E40E
26	M197_26-4	ISP	31/01/2024 16:19	33.710' 36°	06.399' 021°	5105
26	M197 26-4	ISP	31/01/2024 16:21	30 33.710'	021	5109
20				36°	00.000 021°	0.00
26	M197_26-4	ISP	31/01/2024 16:23	33.710'	06.399'	5106
				36°	021°	
26	M197_26-4	ISP	31/01/2024 16:27	33.711'	06.398'	5106
	M407 00 4		04/04/0004 40 00	36°	021°	E400
26	M197_26-4	ISP	31/01/2024 16:28	33.710' 36°	06.399' 021°	5109
26	M197 26-4	ISP	31/01/2024 19:14	36' 33.712'	021''	5109
20				36°	00.000 021°	0100
26	M197_26-4	ISP	31/01/2024 19:18	33.712'	06.398'	5105
				36°	021°	
26	M197_26-4	ISP	31/01/2024 19:20	33.712'	06.401'	5107

		1	1	36°	021°	
26	M197_26-4	ISP	31/01/2024 19:22	33.712'	06.397'	5111
				36°	021°	
26	M197_26-4	ISP	31/01/2024 19:24	33.712'	06.396'	5109
00	M407 00 4	100	04/04/0004 40 00	36°	021°	5407
26	M197_26-4	ISP	31/01/2024 19:26	33.712' 36°	06.401' 021°	5107
26	M197 26-4	ISP	31/01/2024 19:31	30 33.713'	021	5109
20	101197_20-4	155	31/01/2024 19.31	36°	00.390 021°	5109
26	M197 26-4	ISP	31/01/2024 19:38	33.713'	06.398'	5107
				36°	021°	
26	M197_26-4	ISP	31/01/2024 19:45	33.713'	06.399'	5109
				36°	021°	
26	M197_26-4	ISP	31/01/2024 19:47	33.712'	06.399'	5108
00	N407 00 F	T 4410	04/04/0004 40 50	36°	021°	5400
26	M197_26-5	TVMUC	31/01/2024 19:53	33.712' 36°	06.399' 021°	5108
26	M197 26-5	TVMUC	31/01/2024 21:40	36' 33.708'	021	5111
20	101197_20-5	TVINIOC	31/01/2024 21.40	36°	021°	5111
26	M197 26-5	TVMUC	31/01/2024 23:16	33.710'	06.400'	5106
				36°	021°	
26	M197_26-6	WP2	31/01/2024 23:26	33.711'	06.402'	5108
				36°	021°	
26	M197_26-6	WP2	31/01/2024 23:34	33.710'	06.401'	5104
				36°	021°	
26	M197_26-6	WP2	31/01/2024 23:43	33.710'	06.402'	5106
26	M197 26-7	WP3	31/01/2024 23:46	36° 33.709'	021° 06.402'	5108
20	101197_20-7	VVF3	31/01/2024 23.40	36°	00.402 021°	5106
26	M197 26-7	WP3	31/01/2024 23:55	33.710'	06.401'	5106
			0 1/0 1/202 20100	36°	021°	0100
26	M197_26-7	WP3	01/02/2024 00:04	33.710'	06.403'	5106
				36°	021°	
26	M197_26-8	MSN	01/02/2024 00:08	33.709'	06.403'	5105
00	M407 00 0	MON	04/00/0004 00 05	36°	021°	5404
26	M197_26-8	MSN	01/02/2024 00:35	33.710' 36°	06.403' 021°	5104
26	M197_26-8	MSN	01/02/2024 01:03	30 33.710'	021 06.403'	5107
20	11107_20-0		01/02/2024 01:00	36°	020°	5107
27	M197 27-1	CTD	01/02/2024 05:24	37.705'	16.059'	3442
	—			36°	020°	
27	M197_27-1	CTD	01/02/2024 06:35	37.693'	16.078'	3441
				36°	020°	
27	M197_27-1	CTD	01/02/2024 07:38	37.691'	16.077'	3442
07	M407 07 0		01/02/2024 07:42	36°	020°	044F
27	M197_27-2	CTD-UC	01/02/2024 07:42	37.692' 36°	16.079' 020°	3445
27	M197 27-2	CTD-UC	01/02/2024 08:56	36 37.692'	16.079'	3444
<u></u>			5 17 0 L/ L 0 L + 00.00	37.092 36°	020°	J
27	M197 27-2	CTD-UC	01/02/2024 10:00	37.692'	16.078'	3445
				36°	020°	
27	M197_27-3	CTD	01/02/2024 10:04	37.692'	16.079'	3445
				36°	020°	
27	M197_27-3	CTD	01/02/2024 10:10	37.692'	16.079'	3443
~7	M407 07 0	OTD	04/00/0004 40.00	36°	020°	0444
27	M197_27-3	CTD	01/02/2024 10:26	37.692' 36°	16.079'	3444
27	M197 27-4	ISC	01/02/2024 10:25	36° 37.692'	020° 16.078'	3445
21	WI 137_27-4	100	01/02/2024 10.23	51.092	10.070	5445

27 M197_27-4 ISC 01/02/2024 13:21 39.408' 17.603' 3228 27 M197_27-5 ISP 01/02/2024 13:55 37.680' 16.071' 344 27 M197_27-5 ISP 01/02/2024 14:06 37.680' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:14 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:14 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:24 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:41 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 17:27					36°	020°	
27 M197_27-4 ISC 01/02/2024 13:21 39.408' 17.603' 328 27 M197_27-5 ISP 01/02/2024 13:55 37.680' 16.091' 344 27 M197_27-5 ISP 01/02/2024 13:55 37.680' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:04 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:14 36'' 020'' 344 27 M197_27-5 ISP 01/02/2024 14:14 36'' 020'' 344 26 020'' 36'' 020'' 344 36'' 020'' 344 27 M197_27-5 ISP 01/02/2024 14:43 37.688'' 16.075'' 344 27 M197_27-5 ISP 01/02/2024 14:41 37.688'' 16.075'' 344 27 M197_27-5 ISP 01/02/2024 14:41 37.688'' 16.075'' 344 27 M197_27-5 ISP 01/02/2024 14:41 37.	27	M197_27-4	ISC	01/02/2024 12:46			3231
27 M197_27-5 ISP 01/02/2024 13:55 37.680' 16.091' 344 27 M197_27-5 ISP 01/02/2024 14:06 37.680' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:14 37.680' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:14 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:24 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:37 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:43 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:43 36' 020'' 36' 27 M197_27-5 ISP 01/02/2024 17:23 37.680'					36°	020°	
27 M197_27-5 ISP 01/02/2024 13:55 37.860' 16.091' 344 27 M197_27-5 ISP 01/02/2024 14:06 37.683' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:14 37.683'' 16.075' 344 36° 020° 36° 020° 344 37 M197_27-5 ISP 01/02/2024 14:19 37.683'' 16.075' 344 36° 020° 36° 020° 36'' 020° 36'' 020° 344 27 M197_27-5 ISP 01/02/2024 14:30 37.688'' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688'' 16.075'' 344 27 M197_27-5 ISP 01/02/2024 14:41 37.688'' 16.075'' 344 27 M197_27-5 ISP 01/02/2024 14:41 37.689'' 16.074'' 344 27 M197_27-5 ISP 01/02/2024 14:41 37.680'' 16.071'' </td <td>27</td> <td>M197_27-4</td> <td>ISC</td> <td>01/02/2024 13:21</td> <td>39.408'</td> <td>17.603'</td> <td>3288</td>	27	M197_27-4	ISC	01/02/2024 13:21	39.408'	17.603'	3288
27 M197 27-5 ISP 01/02/2024 14:06 36° 020° 27 M197 27-5 ISP 01/02/2024 14:14 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:14 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:24 37.688' 16.074' 344 27 M197 27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197 27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197 27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197 27-5 ISP 01/02/2024 14:41 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:43 37.689' 16.071' 344 27 <					36°	020°	
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27 M197_27-5 ISP 01/02/2024 14:06 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:14 37.688' 16.075' 345 27 M197_27-5 ISP 01/02/2024 14:14 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:24 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:30 36'' 020'' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:33 36'' 020'' 36'' 27 M197_27-5 ISP 01/02/2024 14:41 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:45 36'' 020'' 36'' 27 M197_27-5 ISP 01/02/2024 17:27 37.680''		_				020°	
27 M197_27-5 ISP 01/02/2024 14:14 36° 020° 27 M197_27-5 ISP 01/02/2024 14:14 37.689' 16.075' 345 27 M197_27-5 ISP 01/02/2024 14:19 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:24 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:30 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:37 36° 020° 36' 27 M197_27-5 ISP 01/02/2024 14:37 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:43 37.689' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:45 37.689' 16.074' 344 27 M197_27-5 ISP 01/02/2024 17:29 36'' 020°'	27	M197 27-5	ISP	01/02/2024 14:06			3449
27 M197_27-5 ISP 01/02/2024 14:14 37.689' 16.075' 345 27 M197_27-5 ISP 01/02/2024 14:19 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:24 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:24 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:33 36'' 020'' 345'' 27 M197_27-5 ISP 01/02/2024 14:44 37.688' 16.075' 344 36'' 020'' 344 36'' 020'' 344 27 M197_27-5 ISP 01/02/2024 14:44 37.689' 16.071' 344 36'' 020'' 36'' 020'' 36''' 020'' 36''''							0.10
27 M197 27-5 ISP 01/02/2024 14:19 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:24 37.688' 16.074' 344 27 M197 27-5 ISP 01/02/2024 14:24 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:30 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:33 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197 27-5 ISP 01/02/2024 14:44 37.689' 16.074' 344 36'' 020'' 37.689' 16.074' 344 36'' 020'' 36'' 020'' 36'' 020'' 36'' 020'' 36'' 020'' 36'' 020'' 36''' 020'' 36''' <td>27</td> <td>M197 27-5</td> <td>ISP</td> <td>01/02/2024 14.14</td> <td></td> <td></td> <td>3450</td>	27	M197 27-5	ISP	01/02/2024 14.14			3450
27 M197 27-5 ISP 01/02/2024 14:19 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:24 37.688' 16.074' 344 27 M197 27-5 ISP 01/02/2024 14:30 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:30 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:33 37.688' 16.075' 344 27 M197 27-5 ISP 01/02/2024 14:41 37.688' 16.075' 345 27 M197 27-5 ISP 01/02/2024 14:44 37.689' 16.071' 344 36° 020° 36° 020° 36° 020° 36° 020° 344 27 M197 27-5 ISP 01/02/2024 17.47 37.680' 16.071' 344 36°							0.00
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27 M197_27-5 ISP 01/02/2024 14:30 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:43 36° 020° 36'' 020° 344 27 M197_27-5 ISP 01/02/2024 14:41 37.688' 16.075' 344 36° 020°	27	M107 27-5		01/02/2024 14:24			3447
27 M197_27-5 ISP 01/02/2024 14:30 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.075' 345 27 M197_27-5 ISP 01/02/2024 14:41 37.689' 16.074' 344 36° 020° 36° 020° 36' 020° 36' 37.688' 16.074' 344 36° 020° 36° 020° 36' 020° 36' 37.689' 16.074' 344 36° 020° 36° 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 36' 020° 3	21	WI 37_27-5	101	01/02/2024 14:24			3447
27 M197_27-5 ISP 01/02/2024 14:33 36° 020° 27 M197_27-5 ISP 01/02/2024 14:37 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:37 37.688' 16.075' 345 27 M197_27-5 ISP 01/02/2024 14:41 37.688' 16.075' 344 36° 020° 36° 020° 36° 020° 344 27 M197_27-5 ISP 01/02/2024 14:41 37.689' 16.074' 344 27 M197_27-5 ISP 01/02/2024 17:27 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:23 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:31 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:31 37.690' 16.071' 344 26 M197_27-5 ISP 01/02/2024 17:33 37.690' 16.072' 34	27	M107 27 5		01/02/2024 14:30			2112
27 M197_27-5 ISP 01/02/2024 14:33 37.688' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:37 37.688' 16.075' 345 27 M197_27-5 ISP 01/02/2024 14:41 37.688' 16.075' 344 36° 020° 36° 020° 36'' 020° 36'' 36''' 344 36° 020° 36'' 020° 36''' 344 36'''' 344 36° 020° 36''''''''''''''''''''''''''''''''''''	21	W197_27-5	ISF	01/02/2024 14:30			5445
27 M197_27-5 ISP 01/02/2024 14:37 36° 020° 27 M197_27-5 ISP 01/02/2024 14:37 36° 020° 27 M197_27-5 ISP 01/02/2024 14:41 37.689' 16.074' 344 36° 020° 36° 020° 36° 020° 36° 27 M197_27-5 ISP 01/02/2024 14:41 37.689' 16.074' 344 36° 020° 36° 020° 36° 020° 36° 020° 344 27 M197_27-5 ISP 01/02/2024 17:27 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:29 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:31 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:37 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:37 37.690' 16.071' 344	07			04/00/0004 44:00			0445
27 M197_27-5 ISP 01/02/2024 14:37 37.688' 16.075' 345 27 M197_27-5 ISP 01/02/2024 14:41 37.689' 16.074' 344 36° 020° 36° 020° 344 36° 020° 36° 020° 344 36° 020° 36° 020° 344 36° 020° 36° 020° 344 36° 020° 36° 020° 344 36° 020° 36° 020° 344 36° 020° 36° 020° 344 36° 020° 36° 020° 344 36° 020° 16.071' 344 36° 020° 36° 020° 36° 020° 27 M197_27-5 ISP 01/02/2024 17:31 37.690' 16.071' 344 36° 020° 36° 020° 36° 020° 36° 020° 36°	21	M197_27-5	15P	01/02/2024 14:33			3445
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27 M197_27-5 ISP 01/02/2024 14:41 37.689' 16.074' 344 27 M197_27-5 ISP 01/02/2024 14:44 37.688' 16.075' 344 27 M197_27-5 ISP 01/02/2024 14:45 37.689' 16.074' 344 27 M197_27-5 ISP 01/02/2024 17:27 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:27 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:29 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:31 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:34 37.690' 16.070' 344 27 M197_27-5 ISP 01/02/2024 17:34 37.690' 16.070' 344 27 M197_27-5 ISP 01/02/2024 17:34 37.690' 16.071' 344 27 M197_27-5 ISP 01/02/2024 17:55 3	27	W197_27-5	15P	01/02/2024 14:37			3453
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27 M197_27-6 TVMUC 01/02/2024 18:16 37.690' 16.071' 344 27 M197_27-6 TVMUC 01/02/2024 19:22 37.690' 16.071' 344 27 M197_27-6 TVMUC 01/02/2024 19:22 37.690' 16.071' 344 27 M197_27-6 TVMUC 01/02/2024 20:23 37.690' 16.070' 344 27 M197_27-6 TVMUC 01/02/2024 20:23 37.690' 16.070' 344 27 M197_27-7 WP2 01/02/2024 20:29 37.690' 16.068' 344 27 M197_27-7 WP2 01/02/2024 20:29 37.690' 16.068' 344 27 M197_27-7 WP2 01/02/2024 20:29 37.690' 16.068' 344	27	M197_27-5	ISP	01/02/2024 18:09			3691
27 M197_27-6 TVMUC 01/02/2024 19:22 36° 020° 27 M197_27-6 TVMUC 01/02/2024 19:22 37.690' 16.071' 344 27 M197_27-6 TVMUC 01/02/2024 20:23 37.690' 16.070' 344 27 M197_27-7 WP2 01/02/2024 20:29 37.690' 16.068' 344 27 M197_27-7 WP2 01/02/2024 20:29 37.690' 16.068' 344 27 M197_27-7 WP2 01/02/2024 20:36 37.690' 16.069' 344				0.1001005			
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27 M197_27-6 TVMUC 01/02/2024 20:23 36° 020° 344 27 M197_27-7 WP2 01/02/2024 20:29 37.690' 16.070' 344 27 M197_27-7 WP2 01/02/2024 20:29 37.690' 16.068' 344 27 M197_27-7 WP2 01/02/2024 20:36 37.690' 16.068' 344 27 M197_27-7 WP2 01/02/2024 20:36 37.690' 16.069' 344							
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27 M197_27-7 WP2 01/02/2024 20:29 36° 020° 344 27 M197_27-7 WP2 01/02/2024 20:36 37.690' 16.068' 344 27 M197_27-7 WP2 01/02/2024 20:36 37.690' 16.069' 344							
27 M197_27-7 WP2 01/02/2024 20:29 37.690' 16.068' 344 27 M197_27-7 WP2 01/02/2024 20:36 37.690' 16.069' 344	27	M197_27-6	TVMUC	01/02/2024 20:23			3446
27 M197_27-7 WP2 01/02/2024 20:36 37.690' 16.069' 344					36°	020°	
27 M197_27-7 WP2 01/02/2024 20:36 37.690' 16.069' 344	27	M197_27-7	WP2	01/02/2024 20:29			3446
					36°	020°	
	27	M197_27-7	WP2	01/02/2024 20:36	37.690'	16.069'	3442
					36°	020°	
	27	M197 27-7	WP2	01/02/2024 20:44			3445

				36°	020°	
27	M197_27-8	WP3	01/02/2024 20:46	37.690'	16.069'	3446
				36°	020°	
27	M197_27-8	WP3	01/02/2024 21:02	37.686'	16.060'	3445
				36°	020°	
27	M197_27-8	WP3	01/02/2024 21:33	37.686'	16.060'	3439
				36°	020°	o 4 4 7
27	M197_27-9	MSN	01/02/2024 21:38	37.686'	16.061'	3447
27	M197 27-9	MSN	01/02/2024 22:02	36° 37.686'	020° 16.060'	3445
21	10197_27-9		01/02/2024 22.02	36°	020°	5445
27	M197 27-9	MSN	01/02/2024 22:28	37.686'	16.061'	3445
			01/02/2021 22:20	36°	020°	0110
27	M197 27-10	ISC	01/02/2024 22:34	37.687'	16.063'	3445
	_			36°	020°	
27	M197_27-10	ISC	02/02/2024 00:47	39.998'	14.770'	3042
				36°	020°	
27	M197_27-10	ISC	02/02/2024 01:19	40.189'	14.662'	3012
				37°	020°	
28	M197_28-1	CTD	02/02/2024 06:00	16.671'	11.846'	3464
	N4407 00 4	075		37°	020°	
28	M197_28-1	CTD	02/02/2024 07:04	16.669'	11.844'	3461
20	M407 00 4	CTD	02/02/2024 02:00	37°	020°	2466
28	M197_28-1	CTD	02/02/2024 08:09	16.669' 37°	11.845' 020°	3466
28	M197 28-2	CTD-UC	02/02/2024 08:13	37 16.670'	11.846'	3466
20	101197_20-2		02/02/2024 00.13	37°	020°	5400
28	M197 28-2	CTD-UC	02/02/2024 09:29	16.670'	11.845'	3464
			02,02,202 1 00.20	37°	020°	0101
28	M197 28-2	CTD-UC	02/02/2024 10:35	16.670'	11.845'	3465
				37°	020°	
28	M197_28-3	CTD	02/02/2024 10:39	16.669'	11.847'	3466
				37°	020°	
28	M197_28-3	CTD	02/02/2024 10:45	16.669'	11.845'	3465
	N407 00 0	OTD	00/00/0004 40 50	37°	020°	0404
28	M197_28-3	CTD	02/02/2024 10:52	16.670'	11.846'	3464
28	M197 28-4	ISP	02/02/2024 11:56	37° 16.670'	020° 11.846'	3464
20	10197_20-4	ISF	02/02/2024 11.30	37°	020°	5404
28	M197 28-4	ISP	02/02/2024 12:08	16.669'	11.845'	3464
				37°	020°	5101
28	M197 28-4	ISP	02/02/2024 12:15	16.670'	11.846'	3462
	—			37°	020°	
28	M197_28-4	ISP	02/02/2024 12:21	16.669'	11.845'	3464
				37°	020°	
28	M197_28-4	ISP	02/02/2024 12:25	16.669'	11.846'	3465
				37°	020°	
28	M197_28-4	ISP	02/02/2024 12:28	16.669'	11.845'	3462
	M107 00 4		02/02/2024 40:22	37° 16 670'	020°	2404
28	M197_28-4	ISP	02/02/2024 12:32	16.670' 37°	11.846' 020°	3464
28	M197 28-4	ISP	02/02/2024 12:35	37° 16.669'	11.846'	3463
20	WI 07_20-4		02/02/2024 12.00	37°	020°	5405
28	M197 28-4	ISP	02/02/2024 12:40	16.670'	11.846'	3465
	···· _···			37°	020°	2.00
28	M197_28-4	ISP	02/02/2024 12:43	16.670'	11.846'	3463
				37°	020°	
28	M197 28-4	ISP	02/02/2024 12:44	16.670'	11.847'	3464

28 M197_28-4 ISP 02/02/2024 15:31 16.669' 11.84c' 3464 28 M197_28-4 ISP 02/02/2024 15:34 16.670' 11.845' 3462 28 M197_28-4 ISP 02/02/2024 15:34 16.670' 11.845' 3462 28 M197_28-4 ISP 02/02/2024 15:37 16.670' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:34 16.670' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:42 16.669' 11.846' 3464 37° 020° 37° 020° 3464 37° 020° 3464 28 M197_28-4 ISP 02/02/2024 15:35 16.670' 11.845' 3464 37° 020° 366 28 M197_28-4 ISP 02/02/2024 16:02 16.670' 11.845' 3462 28 M197_28-5 TVMUC 02/02/2024 16:21 16.670' 11.845' 3462 28 M197_28-	1			1	37°	020°	ĺ
28 M197_28-4 ISP 02/02/2024 15:34 16.670' 11.847' 3464 28 M197_28-4 ISP 02/02/2024 15:36 16.670' 11.845' 3462 28 M197_28-4 ISP 02/02/2024 15:37 16.660' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:32 16.670' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:32 16.670' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:33 16.670' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:33 16.670' 11.846' 3464 37" 020° 37" 020° 200' 200' 200' 200' 200' 200' 200' 200' 200' 200' 200' 200' 37'' 020°' 200' 200' 200' 200' 200' 200' 200' 200' 200' 200' 200' 200' 200'	28	M197 28-4	ISP	02/02/2024 15:31	-		3464
28 M197 28-4 ISP 02/02/2024 15:36 16.670' 11.845' 3462 28 M197 28-4 ISP 02/02/2024 15:37 16.669' 11.845' 3462 28 M197 28-4 ISP 02/02/2024 15:33 16.669' 11.845' 3464 28 M197 28-4 ISP 02/02/2024 15:34 16.669' 11.845' 3464 28 M197 28-4 ISP 02/02/2024 15:4669' 11.845' 3464 28 M197 28-4 ISP 02/02/2024 16:670' 11.846' 3464 28 M197 28-4 ISP 02/02/2024 16:670' 11.846' 3464 28 M197 28-5 TVMUC 02/02/2024 16:670' 11.846' 3463 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020°		—			÷.		
28 M197 28-4 ISP 02/02/2024 15:36 16.670' 11.845' 3462 28 M197 28-4 ISP 02/02/2024 15:37 16.669' 11.846' 3464 37" 020° 37" 020° 37" 020° 3464 38 M197 28-4 ISP 02/02/2024 15:37 16.670' 11.846' 3464 28 M197 28-4 ISP 02/02/2024 15:46 16.670' 11.846' 3464 28 M197 28-4 ISP 02/02/2024 15:53 16.670' 11.846' 3464 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020° 37" 020°	28	M197_28-4	ISP	02/02/2024 15:34			3464
28 M197 28-4 ISP 02/02/2024 15:37 16.669' 11.846' 3464 28 M197 28-4 ISP 02/02/2024 15:33 16.670' 11.846' 3464 28 M197 28-4 ISP 02/02/2024 15:34 16.670' 11.845' 3465 28 M197 28-4 ISP 02/02/2024 15:45 16.670' 11.847' 3464 28 M197 28-4 ISP 02/02/2024 16:60' 11.846' 3464 28 M197 28-4 ISP 02/02/2024 16:60' 11.846' 3464 28 M197 28-4 ISP 02/02/2024 16:60' 11.846' 3462 37'' 020° 37'' 020° 37'' 020° 37'' 020° 37'' 020° 37'' 020° 37'' 020° 37'' 020° 37''' 020° 37''' 020° 37'''' 020'''''''''''''''''''''''''''''''''''	28	M107 28-1	ISP	02/02/2024 15:36	-		3462
28 M197_28-4 ISP 02/02/2024 15:37 16.669' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:39 16.670' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:42 16.669' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:42 16.670' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 15:46 16.670' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 16:00 16.670' 11.846' 3464 28 M197_28-4 ISP 02/02/2024 16:02 16.670' 11.846' 3464 28 M197_28-5 TVMUC 02/02/2024 16:12 16.670' 11.846' 3464 28 M197_28-5 TVMUC 02/02/2024 18:12 16.670' 11.846' 3463 28 M197_28-6 WP2 02/02/2024 18:27 16.670' 11.846' 3463 28 M197_28-6 WP2 02/02/2024 18:23	20	WI197_20-4		02/02/2024 13:30			0402
28 M197_28-4 ISP 02/02/2024 15:39 16.670' 11.846' 3464' 28 M197_28-4 ISP 02/02/2024 15:42 16.669' 11.845' 3465' 28 M197_28-4 ISP 02/02/2024 15:46 16.669' 11.845' 3464' 28 M197_28-4 ISP 02/02/2024 15:46 16.670' 11.845' 3464' 28 M197_28-4 ISP 02/02/2024 16:00 16.670' 11.845' 3464 28 M197_28-4 ISP 02/02/2024 16:02 16.670' 11.845' 3462 28 M197_28-5 TVMUC 02/02/2024 16:12 16.670' 11.846' 3464 28 M197_28-5 TVMUC 02/02/2024 17:17 16.667' 11.846' 3463 28 M197_28-6 WP2 02/02/2024 18:18' 16.670' 11.846' 3463 28 M197_28-6 WP2 02/02/2024 18:31' 16.670' 11.846' 3463 28 M197_28-6 WP2 02/02/2024 18:3	28	M197_28-4	ISP	02/02/2024 15:37			3464
37° 020° 28 M197 28.4 ISP 02/02/2024 15.42 16.669' 11.845' 3465 28 M197 28.4 ISP 02/02/2024 15.46 16.670' 11.845' 3464 37' 020° 37'' 020° 37'' 020° 37'' 020° 28 M197 28.4 ISP 02/02/2024 16.670' 11.846' 3464 28 M197 28.4 ISP 02/02/2024 16.670' 11.846' 3464 28 M197 28.5 TVMUC 02/02/2024 16.670' 11.846' 3463 28 M197 28.5 TVMUC 02/02/2024 16.670' 11.845' 3463 28 M197 28.5 TVMUC 02/02/2024 18.18 16.670' 11.846' 3464 28 M197 28.6 WP2 02/02/2024 18.18 16.670' 11.846' 3464 28 M197							
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28 M197_28-4 ISP 02/02/2024 15:46 37° 020° 28 M197_28-4 ISP 02/02/2024 15:53 37° 020° 28 M197_28-4 ISP 02/02/2024 15:53 37° 020° 28 M197_28-4 ISP 02/02/2024 16:00 16.670' 11.846' 3464 37° 020° 11.846' 3464 37° 020° 37° 020° 28 M197_28-4 ISP 02/02/2024 16:12 16.670' 11.846' 3466 37° 020° 11.845' 3463 37° 020° 28 M197_28-5 TVMUC 02/02/2024 16:12 16.670' 11.846' 3463 28 M197_28-6 WP2 02/02/2024 18:18 16.670' 11.846' 3463 37° 020° 11.846' 3461 37° 020° 28 M197_28-6 WP2 02/02/2024 18:31 16.670' 11.846' 3462 37° 020° 20* 1	28	M197 28-4	ISP	02/02/2024 15:42	-		3465
28 M197_28-4 ISP 02/02/2024 15:46 16.670' 11.847' 3464 37° 020° 37° 020		<u>WH07_20</u> +					0400
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28 M197_28-5 TVMUC 02/02/2024 17:17 16.669' 11.845' 3463 28 M197_28-5 TVMUC 02/02/2024 18:18 16.670' 11.845' 3463 28 M197_28-6 WP2 02/02/2024 18:27 16.669' 11.846' 3463 28 M197_28-6 WP2 02/02/2024 18:27 16.670' 11.846' 3464 37° 020° 37° 020° 37° 020° 37° 020° 28 M197_28-6 WP2 02/02/2024 18:31 16.670' 11.846' 3462 37° 020° 37° 020° 37° 020° 37° 020° 28 M197_28-7 WP3 02/02/2024 18:42 16.669' 11.846' 3463 28 M197_28-7 WP3 02/02/2024 18:53 37° 020° 37° 020° 3465 28 M197_28-8 MSN 02/02/2024 19:30 16.669' 11.846' 3462 28 M197_28-8 MSN		N407 00 F	T. 4.4.10				0.400
28 M197_28-5 TVMUC 02/02/2024 17:17 16.669' 11.845' 3463 28 M197_28-5 TVMUC 02/02/2024 18:18 16.670' 11.846' 3463 28 M197_28-6 WP2 02/02/2024 18:27 16.670' 11.846' 3464 37° 020° 37° 020° 37° 020° 28 M197_28-6 WP2 02/02/2024 18:33 16.670' 11.846' 3462 28 M197_28-6 WP2 02/02/2024 18:33 16.670' 11.846' 3464 37° 020° 37° 020° 37° 020° 37° 020° 28 M197_28-7 WP3 02/02/2024 18:58 16.669' 11.846' 3463 28 M197_28-7 WP3 02/02/2024 19:30 16.669' 11.846' 3462 28 M197_28-8 MSN 02/02/2024 19:34 16.670' 11.846' 3464 28 M197_28-8 MSN 02/02/2024 19:59 16.669' 11.846' </td <td>28</td> <td>M197_28-5</td> <td>TVMUC</td> <td>02/02/2024 16:12</td> <td></td> <td></td> <td>3466</td>	28	M197_28-5	TVMUC	02/02/2024 16:12			3466
28 M197_28-5 TVMUC 02/02/2024 18:18 37° 020° 28 M197_28-6 WP2 02/02/2024 18:27 16.670' 11.846' 3463 28 M197_28-6 WP2 02/02/2024 18:27 16.670' 11.846' 3464 37° 020° 37° 020° 11.846' 3464 28 M197_28-6 WP2 02/02/2024 18:33 16.670' 11.846' 3464 37° 020° 37° 020° 37° 020° 37° 020° 28 M197_28-7 WP3 02/02/2024 18:42 16.669' 11.846' 3463 28 M197_28-7 WP3 02/02/2024 18:58 16.669' 11.846' 3465 28 M197_28-7 WP3 02/02/2024 19:30 16.669' 11.846' 3464 37° 020° 37° 020° 020° 02° 02° 02° 02° 02° 02° 02° 02° 02° 02° 02° 02°	28	M197 28-5	TVMUC	02/02/2024 17:17			3463
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28 M197_28-6 WP2 02/02/2024 18:27 16.670' 11.846' 3464 28 M197_28-6 WP2 02/02/2024 18:33 16.670' 11.846' 3462 28 M197_28-6 WP2 02/02/2024 18:41 16.669' 11.846' 3462 28 M197_28-7 WP3 02/02/2024 18:41 16.669' 11.846' 3463 28 M197_28-7 WP3 02/02/2024 18:58 16.669' 11.846' 3465 28 M197_28-7 WP3 02/02/2024 18:58 16.669' 11.846' 3465 28 M197_28-7 WP3 02/02/2024 19:30 16.669' 11.846' 3462 28 M197_28-8 MSN 02/02/2024 19:30 16.669' 11.846' 3464 28 M197_28-8 MSN 02/02/2024 19:34 16.670' 11.846' 3464 29 M197_29-1 CTD 03/02/2024 20:24 16.670' 11.846' 3463 29 M197_29-1 CTD 03/02/2024 06:03	28	M197_28-5	TVMUC	02/02/2024 18:18			3463
28 M197_28-6 WP2 02/02/2024 18:33 37° 020° 28 M197_28-6 WP2 02/02/2024 18:33 16.670' 11.846' 3462 28 M197_28-6 WP2 02/02/2024 18:41 16.669' 11.846' 3464 28 M197_28-7 WP3 02/02/2024 18:42 16.669' 11.846' 3463 28 M197_28-7 WP3 02/02/2024 18:58 16.669' 11.846' 3465 28 M197_28-7 WP3 02/02/2024 19:30 16.669' 11.846' 3462 28 M197_28-7 WP3 02/02/2024 19:30 16.669' 11.846' 3462 28 M197_28-8 MSN 02/02/2024 19:30 16.669' 11.846' 3464 37° 020° 020° 020° 020° 020° 020° 020° 28 M197_28-8 MSN 02/02/2024 19:59 16.669' 11.847' 3463 29 M197_29-1 CTD 03/02/2024 02:24 16.670'	20	M107 29 6		02/02/2024 10:27	• •		2464
28 M197_28-6 WP2 02/02/2024 18:33 16.670' 11.846' 3462 28 M197_28-6 WP2 02/02/2024 18:41 16.669' 11.846' 3464 28 M197_28-7 WP3 02/02/2024 18:42 16.669' 11.846' 3463 28 M197_28-7 WP3 02/02/2024 18:58 16.669' 11.846' 3465 28 M197_28-7 WP3 02/02/2024 18:58 16.669' 11.846' 3465 28 M197_28-7 WP3 02/02/2024 19:30 16.669' 11.846' 3462 28 M197_28-7 WP3 02/02/2024 19:34 16.670' 11.846' 3462 37° 020° 37° 020° 37° 020° 37° 020° 28 M197_28-8 MSN 02/02/2024 19:34 16.670' 11.846' 3463 37° 020° 37° 020° 37° 020° 37° 020° 28 M197_28-8 MSN 02/02/2024 06:03	20	WI197_20-0	VVP2	02/02/2024 10.27			3404
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28	M197 28-6	WP2	02/02/2024 18:33	• •		3462
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28 M197_28-7 WP3 02/02/2024 18:42 16.669' 11.846' 3463 28 M197_28-7 WP3 02/02/2024 18:58 16.669' 11.846' 3465 28 M197_28-7 WP3 02/02/2024 18:58 16.669' 11.846' 3465 28 M197_28-7 WP3 02/02/2024 19:30 16.669' 11.847' 3462 37° 020° 37° 020° 37° 020° 37° 020° 28 M197_28-8 MSN 02/02/2024 19:34 16.670' 11.846' 3464 37° 020° 37° 020° 37° 020° 37° 020° 28 M197_28-8 MSN 02/02/2024 19:59 16.669' 11.846' 3465 39 M197_29-1 CTD 03/02/2024 02:24 16.670' 11.847' 3463 29 M197_29-1 CTD 03/02/2024 04:56 32.697' 23.640' 3189 29 M197_29-2 TVMUC 03/02/2024 07:01	28	M197_28-6	WP2	02/02/2024 18:41			3464
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28	M107 28-7	W/P3	02/02/2024 18:42			3463
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28 M197_28-7 WP3 02/02/2024 19:30 16.669' 11.847' 3462 28 M197_28-8 MSN 02/02/2024 19:34 16.670' 11.846' 3464 28 M197_28-8 MSN 02/02/2024 19:59 16.669' 11.846' 3464 28 M197_28-8 MSN 02/02/2024 19:59 16.669' 11.846' 3465 28 M197_28-8 MSN 02/02/2024 20:24 16.670' 11.847' 3463 29 M197_29-1 CTD 03/02/2024 04:56 32.697' 23.640' 3189 29 M197_29-1 CTD 03/02/2024 04:56 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 08:12	28	M197_28-7	WP3	02/02/2024 18:58		11.846'	3465
28 M197_28-8 MSN 02/02/2024 19:34 16.670' 11.846' 3464 28 M197_28-8 MSN 02/02/2024 19:59 16.669' 11.846' 3465 28 M197_28-8 MSN 02/02/2024 19:59 16.669' 11.846' 3465 28 M197_28-8 MSN 02/02/2024 20:24 16.670' 11.847' 3463 29 M197_29-1 CTD 03/02/2024 04:56 32.697' 23.640' 3189 29 M197_29-1 CTD 03/02/2024 06:03 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:01 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 <td></td> <td>N407 00 7</td> <td></td> <td>00/00/0004 40 00</td> <td></td> <td></td> <td>0.400</td>		N407 00 7		00/00/0004 40 00			0.400
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28	M197_28-7	WP3	02/02/2024 19:30			3462
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28	M197 28-8	MSN	02/02/2024 19:34	-		3464
28 M197_28-8 MSN 02/02/2024 20:24 16.670' 11.847' 3463 29 M197_29-1 CTD 03/02/2024 04:56 32.697' 23.640' 3189 29 M197_29-1 CTD 03/02/2024 04:56 32.697' 23.640' 3189 29 M197_29-1 CTD 03/02/2024 06:03 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3188 29 M197_29-2 TVMUC 03/02/2024 09:0							
28 M197_28-8 MSN 02/02/2024 20:24 16.670' 11.847' 3463 29 M197_29-1 CTD 03/02/2024 04:56 32.697' 23.640' 3189 29 M197_29-1 CTD 03/02/2024 04:56 32.697' 23.640' 3189 29 M197_29-1 CTD 03/02/2024 06:03 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:1	28	M197_28-8	MSN	02/02/2024 19:59			3465
29 M197_29-1 CTD 03/02/2024 04:56 37° 019° 3189 29 M197_29-1 CTD 03/02/2024 06:03 32.697' 23.640' 3189 29 M197_29-1 CTD 03/02/2024 06:03 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 06:03 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3188 37° 019° 37° 019° 37°<		M107 00 0	MCN	00/00/0004 00-04	-		0400
29 M197_29-1 CTD 03/02/2024 04:56 32.697' 23.640' 3189 29 M197_29-1 CTD 03/02/2024 06:03 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 06:03 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-1 CTD 03/02/2024 07:09 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3188 29 M197_29-2 TVMUC 03/02/2024 09	28	IVI I 97_28-8	NISIN	02/02/2024 20:24			3463
29 M197_29-1 CTD 03/02/2024 06:03 37° 019° 3188 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3188 29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3188 37° 019° 37° 019° 3188 37° 019°	29	M197 29-1	СТД	03/02/2024 04:56			3189
29 M197_29-1 CTD 03/02/2024 07:01 37° 019° 3189 29 M197_29-2 TVMUC 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3188 37° 019° 37° 019° 3188 37° 019°		—			37°	019°	
29 M197_29-1 CTD 03/02/2024 07:01 32.697' 23.636' 3189 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3188 29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3188	29	M197_29-1	CTD	03/02/2024 06:03			3188
29 M197_29-2 TVMUC 03/02/2024 07:09 37° 019° 3188 29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3188 29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3188	20	M107 20 1	СТО	03/02/2024 07:04			2100
29 M197_29-2 TVMUC 03/02/2024 07:09 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.636' 3188 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 08:12 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3188 29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3188	29	101137_23-1		03/02/2024 07.01			5109
29 M197_29-2 TVMUC 03/02/2024 08:12 37° 019° 3189 29 M197_29-2 TVMUC 03/02/2024 09:08 37° 019° 3189 29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3189 29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3188 37° 019° 37° 019° 3188 37° 019°	29	M197_29-2	TVMUC	03/02/2024 07:09			3188
29 M197_29-2 TVMUC 03/02/2024 09:08 37° 019° 3188 37° 019° 03/02/2024 09:08 32.697' 23.637' 3188					37°		
29 M197_29-2 TVMUC 03/02/2024 09:08 32.697' 23.637' 3188 37° 019	29	M197_29-2	TVMUC	03/02/2024 08:12			3189
	20	M197 29-2	TVMUC	03/02/2024 00.08			3188
	23	WITOT_20-2		JUIDZIZUZ T UJ.UO			5100
	29	M197_29-3	CTD-UC	03/02/2024 09:26	33.063'	23.555'	3161

1		1	I	37°	019°	
29	M197 29-3	CTD-UC	03/02/2024 10:37	33.063'	23.555'	3162
20		010 00	00/02/2021 10:01	37°	019°	0102
29	M197 29-3	CTD-UC	03/02/2024 11:40	33.038'	23.561'	3153
				37°	019°	
29	M197_29-4	CTD	03/02/2024 11:43	33.044'	23.560'	3159
				37°	019°	
29	M197_29-4	CTD	03/02/2024 11:49	33.049'	23.559'	3154
20	M407 00 4	OTD	02/02/2024 44.50	37°	019°	2465
29	M197_29-4	CTD	03/02/2024 11:56	33.023' 37°	23.564' 019°	3165
29	M197 29-5	ISC	03/02/2024 12:59	31.778'	23.846'	3204
20	<u></u>		00/02/2024 12:00	37°	019°	0204
29	M197 29-5	ISC	03/02/2024 13:21	31.993'	23.799'	3153
				37°	019°	
29	M197_29-5	ISC	03/02/2024 16:02	33.277'	23.511'	3262
				37°	019°	
29	M197_29-6	ISP	03/02/2024 16:20	33.062'	23.564'	3198
29	M197 29-6	ISP	03/02/2024 16:26	37° 33.062'	019° 23.565'	3202
29	101197_29-0	13F	03/02/2024 10.20	33.002 37°	019°	3202
29	M197 29-6	ISP	03/02/2024 16:38	33.062'	23.564'	3204
				37°	019°	0201
29	M197_29-6	ISP	03/02/2024 16:46	33.061'	23.563'	3204
				37°	019°	
29	M197_29-6	ISP	03/02/2024 16:51	33.061'	23.564'	3201
00	1407 00 0	100	00/00/0004 40 50	37°	019°	0000
29	M197_29-6	ISP	03/02/2024 16:59	33.062' 37°	23.565' 019°	3200
29	M197 29-6	ISP	03/02/2024 17:03	37 33.061'	23.564'	3200
20	101107_20-0		00/02/2024 11:00	37°	019°	0200
29	M197 29-6	ISP	03/02/2024 17:07	33.062'	23.565'	3204
				37°	019°	
29	M197_29-6	ISP	03/02/2024 17:10	33.062'	23.565'	3203
				37°	019°	
29	M197_29-6	ISP	03/02/2024 17:13	33.062'	23.564'	3207
29	M197_29-6	ISP	03/02/2024 17:15	37° 33.062'	019° 23.564'	3201
29	101197_29-0	ISF	03/02/2024 17.13	33.002 37°	019°	3201
29	M197 29-6	ISP	03/02/2024 19:51	33.061'	23.566'	3190
				37°	019°	
29	M197_29-6	ISP	03/02/2024 19:53	33.062'	23.565'	3207
				37°	019°	
29	M197_29-6	ISP	03/02/2024 19:54	33.061'	23.566'	3205
29	M107 20 6	ISP	03/02/2024 19:59	37° 33.061'	019° 23.566'	3191
29	M197_29-6		03/02/2024 19.39	33.061 37°	23.566 019°	3191
29	M197 29-6	ISP	03/02/2024 20:01	33.061'	23.566'	3190
				37°	019°	
29	M197_29-6	ISP	03/02/2024 20:09	33.061'	23.566'	3190
				37°	019°	
29	M197_29-6	ISP	03/02/2024 20:13	33.061'	23.566'	3210
~~~	M407 00 0		02/02/2004 02 04	37°	019°	0005
29	M197_29-6	ISP	03/02/2024 20:21	33.061' 37°	23.567' 019°	3205
29	M197_29-6	ISP	03/02/2024 20:32	37' 33.061'	23.566'	3191
23				33.001 37°	019°	0101
29	M197_29-6	ISP	03/02/2024 20:35	33.061'	23.565'	3186
29	W197_29-6	154	03/02/2024 20:35	33.061	23.565	3186

I.		1	1	37°	019°	
29	M197 29-7	WP2	03/02/2024 20:43	33.061'	23.566'	3205
23	101197_29-7	VVFZ	03/02/2024 20.43	37°	23.300 019°	5205
29	M197 29-7	WP2	03/02/2024 20:49	37 33.061'	23.566'	3205
29	101197_29-7	VVFZ	03/02/2024 20.49	33.001 37°		3205
	M407 00 7		00/00/0004 00.57	-	019°	2400
29	M197_29-7	WP2	03/02/2024 20:57	33.061'	23.565'	3190
	14407 00 0	14/50		37°	019°	0.405
29	M197_29-8	WP3	03/02/2024 21:00	33.061'	23.567'	3195
				37°	019°	
29	M197_29-8	WP3	03/02/2024 21:07	33.062'	23.568'	3197
				37°	019°	
29	M197_29-8	WP3	03/02/2024 21:15	33.061'	23.567'	3196
				37°	019°	
29	M197_29-9	MSN	03/02/2024 21:21	33.061'	23.567'	3194
				37°	019°	
29	M197 29-9	MSN	03/02/2024 21:45	33.061'	23.566'	3198
				37°	019°	
29	M197 29-9	MSN	03/02/2024 22:11	33.061'	23.566'	3196
				37°	019°	
29	M197 29-10	ISC	03/02/2024 22:17	33.061'	23.566'	3205
		100	00/02/202122.11	37°	019°	0200
29	M197 29-10	ISC	04/02/2024 00:40	34.429'	24.104'	3182
23	10101_20-10	100	04/02/2024 00.40	37°	019°	5102
29	M197 29-10	100	04/02/2024 01:14		24.143'	2164
29	M197_29-10	ISC	04/02/2024 01:14	34.561'		3164
	14407 00 4	OTD	04/00/0004 05 57	37°	018°	0007
30	M197_30-1	CTD	04/02/2024 05:57	29.827'	43.746'	3307
	14407 00 4	075		37°	018°	
30	M197_30-1	CTD	04/02/2024 06:16	29.820'	43.737'	3304
				37°	018°	
30	M197_30-1	CTD	04/02/2024 06:34	29.820'	43.737'	3304
				37°	018°	
30	M197_30-2	CTD-UC	04/02/2024 06:40	29.820'	43.738'	3305
				37°	018°	
30	M197_30-2	CTD-UC	04/02/2024 06:56	29.820'	43.738'	3294
				37°	018°	
30	M197_30-2	CTD-UC	04/02/2024 07:14	29.819'	43.737'	3306
				37°	018°	
30	M197_30-3	WP2	04/02/2024 17:37	29.826'	43.732'	3302
	— —			37°	018°	
30	M197 30-3	WP2	04/02/2024 17:43	29.826'	43.733'	3303
				37°	018°	
30	M197 30-3	WP2	04/02/2024 17:51	29.825'	43.733'	3310
	···· <b>_···</b>			37°	018°	
30	M197 30-4	MSN	04/02/2024 17:54	29.826'	43.734'	3310
	<u></u>			37°	018°	0010
30	M197 30-4	MSN	04/02/2024 18:24	29.825'	43.732'	3305
	<u></u>		04/02/2024 10.24	37°	018°	0000
30	M197_30-4	MSN	04/02/2024 18:50	29.825'	43.733'	3309
30	101137_30-4	WON	04/02/2024 10.30	29.020	40.700	2209

### 8 Data and Sample Storage and Availability

A cruise summary report (CSR) has been compiled and submitted to DOD (Deutsches Ozeanographisches Datenzentrum), BSH, Hamburg, immediately after the cruise. Part of the cruise was performed in waters under jurisdiction of the Republic of Cyprus and part under jurisdiction of Greece.

All hydrographic data acquired during the cruise will be transferred to BSH and made available to the PANGAEA database. All nutrient and trace element to be acquired will also be fed into these data bases and will be made publicly available within 3 years after cruise end (1st quarter of 2027). All water samples are stored at the respective laboratories, where the measurements will be carried out. The Kiel Data Management Team (KDMT) provides an information and data archival system where metadata of the onboard DSHIP-System are collected and are made publicly available. This Ocean Science Information System (OSIS-Kiel) is accessible for all used to share and edit project participants and can be field information (https://portal.geomar.de/metadata/). Metadata will be made available in OSIS (https://portal.geomar.de/osis) following completion of the cruise, whilst the data will be made available in OSIS according to Table 8.1.

Table 8.1 lists the target databases, tentative availability times and responsible scientists.

**Hydrography and hydroaccustics** - data are held by DAM and will be publicly available within six months after the cruise (responsible: Dr. T. Browning).

**Dissolved and particulate trace metals** - samples and data are held at GEOMAR, Kiel (responsible: Prof. E. Achterberg/Dr. T. Browning).

**Phytoplankton/productivity** – samples and data are held at University of Haifa (responsible Prof. Ilana Berman-Frank), and GEOMAR, Kiel (responsible Dr. T. Browning).

**Nitrogen cycling and fixation** - samples and data are held at University of Haifa (responsible Prof. Ilana Berman-Frank).

**Zooplankton and eDNA** - samples and data are held at GEOMAR and University of Haifa (responsible Dr H.-J. Hoving and Dr. T Guy-Haim).

Nutrients, DOC, carbon cycle - samples and data are held at GEOMAR, Kiel (responsible Prof. E. Achterberg/Dr. T. Browning).

**Microplastics** - samples and data are held at CMMI, Republic of Cyprus (responsible Dr. L. Hadjioannou).

**Microbial DNA/RNA** - samples and data are held at MBL, USA (responsible Prof. A. Worden).

**Sediments** - samples and data are held at GEOMAR and University of Haifa (responsible Prof. Y. Makovsky).

Туре	Database	Available	Contact
Hydrography	PANGAEA	July 2024	tbrowning@geomar.de
Nutrients	PANGAEA	March 2027	eachterberg@geomar.de
Trace metals	PANGAEA	March 2027	eachterberg@geomar.de
Nitrogen cycling and fixation	PANGAEA	March 2027	iberman2@univ.haifa.ac.il
Phytoplankton/productivity	PANGAEA	March 2027	tbrowning@geomar.de / iberman2@univ.haifa.ac.il
Carbonate chemistry	PANGAEA	March 2027	eachterberg@geomar.de
Zooplankton	PANGAEA	March 2027	hhoving@geomar.de / tamar.guy-haim@ocean.org.il
Sediments	PANGAEA	March 2027	yizhaq@univ.haifa.ac.il
Microplastics	PANGAEA	March 2027	louis.hadjioannou@cmmi.blue
Microbial DNA/RNA	PANGAEA	March 2027	azworden@mbl.edu

 Table 8.1
 Overview of data availability

### 9 Acknowledgements

All the members of the M197 science team are very grateful to the DFG, the German Research Fleet Coordination Centre at the Universität Hamburg, the shipping company BRIESE RESEARCH and LPL Projects + Logistics GmbH for their support to both science and ship logistics. Finally, we would also like to sincerely thank the captain, officers and crew on the RV METEOR who provided excellent support in making the cruise both successful and enjoyable.

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### 11 Abbreviations

Acoustic Doppler Current Profiler
Atlantic Water
Biological Carbon Pump
Biogenic silicate
Certified Reference Material
Conductivity Temperature Depth
Dissolved Inorganic Carbon
Deoxyribonucleic acid
Dissolved Organic Carbon
Dissolved Trace Elements
Deutsche Wetterdienst
Dual waveband measurements
Exclusive Economic Zone
Eastern Mediterranean Deep Water
Eastern Mediterranean Sea
Eastern Mediterranean Sea – Process Study
Flow cytometry
Fast Repetition Rate fluorometry
Kiel In situ Pumps
Low Density Polyethylene
Levantine Intermediate Water
Levantine Surface Water
Ortho-phthalaldehyde
Photosynthetically Available Radiation
Photosynthetic excitation profiles
Particulate nitrogen
Particulate Organic Matter
Stainless steel CTD
Total Alkalinity
Transparent Exopolymer Particles
Titanium frame CTD (equivalent to TM CTD)
Total oxidized nitrogen
Total Dissolved Trace Metals
Trace metals
Trace Metal CTD (equivalent to TM CTD)
Underwater Vision Profiler

# 12 Appendices

12.1 Total Salinity Samples Taken from SS CTD, Including Station Numbers.

Station	Cast	Date	Label ID
1	1	2024-01-07	M197_1_0001
1	1	2024-01-07	M197_1_0009
1	1	2024-01-07	M197_1_0022
1	2	2024-01-07	M197_1_0033
2	4	2024-01-08	M197_1_0064
2	4	2024-01-08	M197_1_0072
2	4	2024-01-08	M197_1_0085
2	5	2024-01-08	M197_1_0096
3	7	2024-01-09	M197_1_0126
3	7	2024-01-09	M197_1_0135
3	7	2024-01-09	M197_1_0147
3	8	2024-01-09	M197_1_0158
4	10	2024-01-10	M197_1_0189
4	10	2024-01-10	M197_1_0197
4	11	2024-01-10	M197_1_0221
5	13	2024-01-11	M197_1_0246
5	14	2024-01-11	M197_1_0276
6	16	2024-01-12	M197_1_0315
6	16	2024-01-12	M197_1_0322
6	17	2024-01-12	M197_1_0345
7	19	2024-01-13	M197_1_0376
7	20	2024-01-13	M197_1_0401
8	22	2024-01-14	M197_1_0440
8	22	2024-01-14	M197_1_0449
8	23	2024-01-14	M197_1_0470
9	25	2024-01-15	M197_1_0492
9	26	2024-01-15	M197_1_0522
10	28	2024-01-16	M197_1_0561
10	29	2024-01-16	M197_1_0591

11       31       2024-01-17       M197_1_0625         11       31       2024-01-17       M197_1_0632         11       32       2024-01-17       M197_1_0655         12       34       2024-01-18       M197_1_0697         12       34       2024-01-18       M197_1_0705         12       35       2024-01-18       M197_1_0727         13       37       2024-01-19       M197_1_0755         15       40       2024-01-20       M197_1_0830         15       40       2024-01-20       M197_1_0860         17       43       2024-01-20       M197_1_0860         17       43       2024-01-22       M197_1_0893         17       43       2024-01-22       M197_1_0991         17       43       2024-01-23       M197_1_0997         18       46       2024-01-24       M197_1_0991         19       49       2024-01-24       M197_1_1092         19       49       2024-01-24       M197_1_1026         19       49       2024-01-24       M197_1_1026         19       49       2024-01-25       M197_1_1026         20       53       2024-01-26       M197_1_11		1	1	11
1132 $2024-01-17$ $M197_{-1}_{-0}655$ 1234 $2024-01-18$ $M197_{-1}_{-0}697$ 1234 $2024-01-18$ $M197_{-1}_{-0}705$ 1235 $2024-01-18$ $M197_{-1}_{-0}727$ 1337 $2024-01-19$ $M197_{-1}_{-0}761$ 1338 $2024-01-20$ $M197_{-1}_{-0}830$ 1540 $2024-01-20$ $M197_{-1}_{-0}840$ 1541 $2024-01-20$ $M197_{-1}_{-0}860$ 1743 $2024-01-22$ $M197_{-1}_{-0}893$ 1743 $2024-01-22$ $M197_{-1}_{-0}901$ 1744 $2024-01-22$ $M197_{-1}_{-0}957$ 1846 $2024-01-23$ $M197_{-1}_{-1}0957$ 1847 $2024-01-24$ $M197_{-1}_{-1}0957$ 1847 $2024-01-24$ $M197_{-1}_{-1}0991$ 1949 $2024-01-24$ $M197_{-1}_{-1}1026$ 1949 $2024-01-24$ $M197_{-1}_{-1}1026$ 1949 $2024-01-24$ $M197_{-1}_{-1}1092$ 2053 $2024-01-25$ $M197_{-1}_{-1}169$ 2155 $2024-01-26$ $M197_{-1}_{-1}116$ 2155 $2024-01-26$ $M197_{-1}_{-1}128$ 2258 $2024-01-27$ $M197_{-1}_{-1}128$ 2361 $2024-01-28$ $M197_{-1}_{-1}1312$ 2463 $2024-01-29$ $M197_{-1}_{-1}335$	11	31	2024-01-17	M197_1_0625
12342024-01-18M197_1_069712342024-01-18M197_1_070512352024-01-18M197_1_070513372024-01-19M197_1_076113382024-01-19M197_1_079515402024-01-20M197_1_080015402024-01-20M197_1_084015412024-01-20M197_1_084015412024-01-22M197_1_089317432024-01-22M197_1_090117432024-01-22M197_1_092718462024-01-23M197_1_095718472024-01-24M197_1_1095718472024-01-24M197_1_109219492024-01-24M197_1_102619492024-01-25M197_1_109220532024-01-26M197_1_116021552024-01-26M197_1_116921562024-01-27M197_1_12822582024-01-27M197_1_124923612024-01-28M197_1_127823622024-01-28M197_1_131224632024-01-29M197_1_1335	11	31	2024-01-17	M197_1_0632
12         34         2024-01-18         M197_1_0705           12         35         2024-01-18         M197_1_0727           13         37         2024-01-19         M197_1_0761           13         38         2024-01-20         M197_1_075           15         40         2024-01-20         M197_1_0830           15         40         2024-01-20         M197_1_0840           15         41         2024-01-22         M197_1_0860           17         43         2024-01-22         M197_1_0893           17         43         2024-01-22         M197_1_0901           17         43         2024-01-23         M197_1_0927           18         46         2024-01-23         M197_1_0957           18         47         2024-01-23         M197_1_0991           19         49         2024-01-24         M197_1_1026           19         49         2024-01-24         M197_1_1034           19         50         2024-01-25         M197_1_1092           20         53         2024-01-26         M197_1_1106           21         55         2024-01-26         M197_1_1161           21         56         2024-01-26 </td <td>11</td> <td>32</td> <td>2024-01-17</td> <td>M197_1_0655</td>	11	32	2024-01-17	M197_1_0655
12         35         2024-01-18         M197_1_0727           13         37         2024-01-19         M197_1_0761           13         38         2024-01-19         M197_1_0795           15         40         2024-01-20         M197_1_0830           15         40         2024-01-20         M197_1_0840           15         41         2024-01-20         M197_1_0860           17         43         2024-01-22         M197_1_0893           17         43         2024-01-22         M197_1_0927           18         46         2024-01-23         M197_1_0957           18         47         2024-01-23         M197_1_0957           18         47         2024-01-23         M197_1_0957           18         47         2024-01-24         M197_1_1026           19         49         2024-01-24         M197_1_1026           19         49         2024-01-24         M197_1_1034           19         50         2024-01-25         M197_1_1092           20         53         2024-01-26         M197_1_1106           21         55         2024-01-26         M197_1_1161           21         56         2024-01-26<	12	34	2024-01-18	M197_1_0697
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13         38         2024-01-19         M197_1_0795           15         40         2024-01-20         M197_1_0830           15         40         2024-01-20         M197_1_0840           15         41         2024-01-20         M197_1_0860           17         43         2024-01-22         M197_1_0893           17         43         2024-01-22         M197_1_0901           17         43         2024-01-22         M197_1_0927           18         46         2024-01-23         M197_1_0957           18         47         2024-01-23         M197_1_0991           19         49         2024-01-24         M197_1_0991           19         49         2024-01-24         M197_1_1026           19         49         2024-01-25         M197_1_1034           19         50         2024-01-25         M197_1_1092           20         53         2024-01-26         M197_1_1106           21         55         2024-01-26         M197_1_1169           21         56         2024-01-26         M197_1_1169           21         56         2024-01-27         M197_1_1215           22         58         2024-01-27<	12	35	2024-01-18	M197_1_0727
15         40         2024-01-20         M197_1_0830           15         40         2024-01-20         M197_1_0840           15         41         2024-01-20         M197_1_0860           17         43         2024-01-22         M197_1_0893           17         43         2024-01-22         M197_1_0901           17         43         2024-01-22         M197_1_0927           18         46         2024-01-23         M197_1_0957           18         47         2024-01-24         M197_1_0991           19         49         2024-01-24         M197_1_1026           19         49         2024-01-24         M197_1_1034           19         50         2024-01-24         M197_1_1060           20         53         2024-01-25         M197_1_1060           20         53         2024-01-26         M197_1_1169           21         55         2024-01-26         M197_1_1169           21         56         2024-01-26         M197_1_1169           21         56         2024-01-27         M197_1_1249           23         61         2024-01-28         M197_1_1249           23         61         2024-01-28<	13	37	2024-01-19	M197_1_0761
15         40         2024-01-20         M197_1_0840           15         41         2024-01-20         M197_1_0860           17         43         2024-01-22         M197_1_0993           17         43         2024-01-22         M197_1_0901           17         43         2024-01-22         M197_1_0927           18         46         2024-01-23         M197_1_0957           18         47         2024-01-23         M197_1_10957           18         47         2024-01-24         M197_1_10991           19         49         2024-01-24         M197_1_1034           19         50         2024-01-25         M197_1_1092           20         52         2024-01-25         M197_1_1092           20         53         2024-01-26         M197_1_1160           21         55         2024-01-26         M197_1_1169           21         56         2024-01-26         M197_1_1195           22         58         2024-01-27         M197_1_1215           22         59         2024-01-28         M197_1_1278           23         61         2024-01-28         M197_1_1312           24         63         2024-01-2	13	38	2024-01-19	M197_1_0795
15         41         2024-01-20         M197_1_0860           17         43         2024-01-22         M197_1_0893           17         43         2024-01-22         M197_1_0901           17         44         2024-01-22         M197_1_0927           18         46         2024-01-23         M197_1_0957           18         47         2024-01-23         M197_1_0991           19         49         2024-01-24         M197_1_1026           19         49         2024-01-24         M197_1_1034           19         50         2024-01-25         M197_1_1092           20         53         2024-01-25         M197_1_1092           20         53         2024-01-26         M197_1_1160           21         55         2024-01-26         M197_1_1169           21         55         2024-01-26         M197_1_1169           21         56         2024-01-27         M197_1_125           22         58         2024-01-27         M197_1_1249           23         61         2024-01-28         M197_1_1278           23         61         2024-01-28         M197_1_1312           24         63         2024-01-29 </td <td>15</td> <td>40</td> <td>2024-01-20</td> <td>M197_1_0830</td>	15	40	2024-01-20	M197_1_0830
Image: International and the international andiana andianted and the international and the international and	15	40	2024-01-20	M197_1_0840
17       43       2024-01-22       M197_1_0901         17       44       2024-01-22       M197_1_0927         18       46       2024-01-23       M197_1_0957         18       47       2024-01-23       M197_1_0991         19       49       2024-01-24       M197_1_1026         19       49       2024-01-24       M197_1_1034         19       50       2024-01-24       M197_1_1060         20       52       2024-01-25       M197_1_1092         20       53       2024-01-26       M197_1_1126         21       55       2024-01-26       M197_1_1161         21       55       2024-01-26       M197_1_1169         21       56       2024-01-27       M197_1_1215         22       58       2024-01-27       M197_1_1249         23       61       2024-01-28       M197_1_1249         23       61       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1335	15	41	2024-01-20	M197_1_0860
$17$ 44 $2024-01-22$ $M197_1_0927$ 1846 $2024-01-23$ $M197_1_0957$ 1847 $2024-01-23$ $M197_1_0991$ 1949 $2024-01-24$ $M197_1_1026$ 1949 $2024-01-24$ $M197_1_1034$ 1950 $2024-01-24$ $M197_1_1060$ 2052 $2024-01-25$ $M197_1_1060$ 2052 $2024-01-25$ $M197_1_1126$ 2155 $2024-01-26$ $M197_1_1161$ 2155 $2024-01-26$ $M197_1_1195$ 2258 $2024-01-27$ $M197_1_1249$ 2361 $2024-01-28$ $M197_1_1286$ 2362 $2024-01-28$ $M197_1_1312$ 2463 $2024-01-29$ $M197_1_1335$	17	43	2024-01-22	M197_1_0893
Image:	17	43	2024-01-22	M197_1_0901
18       47       2024-01-23       M197_1_0991         19       49       2024-01-24       M197_1_1026         19       49       2024-01-24       M197_1_1034         19       50       2024-01-24       M197_1_1060         20       52       2024-01-25       M197_1_1092         20       53       2024-01-25       M197_1_1126         21       55       2024-01-26       M197_1_1161         21       55       2024-01-26       M197_1_1169         21       56       2024-01-26       M197_1_1155         22       58       2024-01-27       M197_1_1249         23       61       2024-01-28       M197_1_1278         23       61       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1335	17	44	2024-01-22	M197_1_0927
19         49         2024-01-24         M197_1_1026           19         49         2024-01-24         M197_1_1034           19         50         2024-01-24         M197_1_1060           20         52         2024-01-25         M197_1_1092           20         53         2024-01-25         M197_1_11026           21         55         2024-01-26         M197_1_1161           21         55         2024-01-26         M197_1_1169           21         56         2024-01-26         M197_1_1169           21         56         2024-01-26         M197_1_1195           22         58         2024-01-27         M197_1_1215           22         59         2024-01-27         M197_1_1249           23         61         2024-01-28         M197_1_1278           23         61         2024-01-28         M197_1_1312           24         63         2024-01-29         M197_1_1326           24         63         2024-01-29         M197_1_1335	18	46	2024-01-23	M197_1_0957
19         49         2024-01-24         M197_1_1034           19         50         2024-01-24         M197_1_1060           20         52         2024-01-25         M197_1_1092           20         53         2024-01-25         M197_1_1126           21         55         2024-01-26         M197_1_1161           21         55         2024-01-26         M197_1_1169           21         56         2024-01-26         M197_1_1159           22         58         2024-01-27         M197_1_1215           22         58         2024-01-27         M197_1_1249           23         61         2024-01-28         M197_1_1286           23         61         2024-01-28         M197_1_1312           24         63         2024-01-29         M197_1_1335	18	47	2024-01-23	M197_1_0991
19         50         2024-01-24         M197_1_1060           20         52         2024-01-25         M197_1_1092           20         53         2024-01-25         M197_1_1126           21         55         2024-01-26         M197_1_1161           21         55         2024-01-26         M197_1_1169           21         55         2024-01-26         M197_1_1169           21         56         2024-01-26         M197_1_1195           22         58         2024-01-27         M197_1_1215           22         59         2024-01-27         M197_1_1249           23         61         2024-01-28         M197_1_1286           23         61         2024-01-28         M197_1_1312           24         63         2024-01-29         M197_1_1335	19	49	2024-01-24	M197_1_1026
20       52       2024-01-25       M197_1_1092         20       53       2024-01-25       M197_1_1126         21       55       2024-01-26       M197_1_1161         21       55       2024-01-26       M197_1_1169         21       55       2024-01-26       M197_1_1169         21       56       2024-01-26       M197_1_1195         22       58       2024-01-27       M197_1_1215         22       59       2024-01-27       M197_1_1249         23       61       2024-01-28       M197_1_1278         23       61       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1335	19	49	2024-01-24	M197_1_1034
20       53       2024-01-25       M197_1_1126         21       55       2024-01-26       M197_1_1161         21       55       2024-01-26       M197_1_1169         21       56       2024-01-26       M197_1_1195         22       58       2024-01-27       M197_1_1215         22       59       2024-01-27       M197_1_1249         23       61       2024-01-28       M197_1_1286         23       61       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1335	19	50	2024-01-24	M197_1_1060
21       55       2024-01-26       M197_1_1161         21       55       2024-01-26       M197_1_1169         21       56       2024-01-26       M197_1_1195         22       58       2024-01-27       M197_1_1215         22       59       2024-01-27       M197_1_1249         23       61       2024-01-28       M197_1_1278         23       61       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1335	20	52	2024-01-25	M197_1_1092
21       55       2024-01-26       M197_1_1169         21       56       2024-01-26       M197_1_1195         22       58       2024-01-27       M197_1_1215         22       59       2024-01-27       M197_1_1249         23       61       2024-01-28       M197_1_1278         23       61       2024-01-28       M197_1_1286         23       62       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1335	20	53	2024-01-25	M197_1_1126
21       56       2024-01-26       M197_1_1195         22       58       2024-01-27       M197_1_1215         22       59       2024-01-27       M197_1_1249         23       61       2024-01-28       M197_1_1278         23       61       2024-01-28       M197_1_1286         23       62       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1335	21	55	2024-01-26	M197_1_1161
22       58       2024-01-27       M197_1_1215         22       59       2024-01-27       M197_1_1249         23       61       2024-01-28       M197_1_1278         23       61       2024-01-28       M197_1_1286         23       62       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1335	21	55	2024-01-26	M197_1_1169
22       59       2024-01-27       M197_1_1249         23       61       2024-01-28       M197_1_1278         23       61       2024-01-28       M197_1_1286         23       62       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1335	21	56	2024-01-26	M197_1_1195
23       61       2024-01-28       M197_1_1278         23       61       2024-01-28       M197_1_1286         23       62       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1326         24       63       2024-01-29       M197_1_1335	22	58	2024-01-27	M197_1_1215
23       61       2024-01-28       M197_1_1286         23       62       2024-01-28       M197_1_1312         24       63       2024-01-29       M197_1_1326         24       63       2024-01-29       M197_1_1335	22	59	2024-01-27	M197_1_1249
23         62         2024-01-28         M197_1_1312           24         63         2024-01-29         M197_1_1326           24         63         2024-01-29         M197_1_1335	23	61	2024-01-28	M197_1_1278
24         63         2024-01-29         M197_1_1326           24         63         2024-01-29         M197_1_1335	23	61	2024-01-28	M197_1_1286
24         63         2024-01-29         M197_1_1335	23	62	2024-01-28	M197_1_1312
	24	63	2024-01-29	M197_1_1326
24         64         2024-01-29         M197_1_1360	24	63	2024-01-29	M197_1_1335
	24	64	2024-01-29	M197_1_1360

25	66	2024-01-30	M197_1_1397
25	66	2024-01-30	M197_1_1402
25	67	2024-01-30	M197_1_1431
26	70	2024-01-31	M197_1_1461
26	70	2024-01-31	M197_1_1468
26	71	2024-01-31	M197_1_1495
27	73	2024-02-01	M197_1_1530
27	73	2024-02-01	M197_1_1538
27	74	2024-02-01	M197_1_1564
28	76	2024-02-02	M197_1_1593
28	76	2024-02-02	M197_1_1601
28	77	2024-02-02	M197_1_1627
29	79	2024-02-03	M197_1_1656
29	79	2024-02-03	M197_1_1664
29	80	2024-02-03	M197_1_1690
30	82	2024-02-04	M197_1_1702
30	82	2024-02-04	M197_1_1718

12.2 Tota Station	Cast	Date	Label ID	ng Station Numbers.
1	1	2024-01-07	M197_2_0005	
1	1	2024-01-07	M197_2_0007	
1	1	2024-01-07	M197_2_0013	
1	1	2024-01-07	M197_2_0019	Two samples were not
				taken on the station 1
1	1	2024-01-07	M197_2_0021	
2	2	2024-01-08	M197_2_0026	
2	2	2024-01-08	M197_2_0030	
2	2	2024-01-08	M197_2_0032	
2	2	2024-01-08	M197_2_0038	
2	2	2024-01-08	M197_2_0044	
2	2	2024-01-08	M197_2_0048	
3	3	2024-01-09	M197_2_0051	
3	3	2024-01-09	M197_2_0055	
3	3	2024-01-09	M197_2_0057	
3	3	2024-01-09	M197_2_0063	
3	3	2024-01-09	M197_2_0069	
3	3	2024-01-09	M197_2_0073	
4	4	2024-01-10	M197_2_0076	
4	4	2024-01-10	M197_2_0098	
5	5	2024-01-11	M197_2_0102	
5	5	2024-01-11	M197_2_0109	
5	5	2024-01-11	M197_2_0123	
6	6	2024-01-12	M197_2_0127	
6	6	2024-01-12	M197_2_0147	
7	7	2024-01-13	M197_2_0152	
7	7	2024-01-13	M197_2_0160	
7	7	2024-01-13	M197_2_0172	
8	8	2024-01-14	M197_2_0176	
8	8	2024-01-14	M197_2_0197	
9	9	2024-01-15	M197_2_0201	
9	9	2024-01-15	M197_2_0207	
9	9	2024-01-15	 M197_2_0222	
10	10	2024-01-16	M197_2_0276	
10	10	2024-01-16	M197_2_0248	
11	11	2024-01-17	M197_2_0251	
11	11	2024-01-17	 M197_2_0259	
11	11	2024-01-17	M197 2 0273	
12	12	2024-01-18	M197 2 0276	
12	12	2024-01-18	M197_2_0276	

12.2 Total Salinity Samples Taken from TM CTD, Including Station Numbers.

		1	
12	12	2024-01-18	M197_2_0298
13	13	2024-01-19	M197_2_0301
13	13	2024-01-19	M197_2_0309
13	13	2024-01-19	M197_2_0323
15	14	2024-01-20	M197_2_0326
15	14	2024-01-20	M197_2_0346
16	15	2024-01-21	M197_2_0351
16	15	2024-01-21	M197_2_0357
16	15	2024-01-21	M197_2_0363
16	15	2024-01-21	M197_2_0373
17	16	2024-01-22	M197_2_0376
17	16	2024-01-22	M197_2_0398
18	17	2024-01-23	M197_2_0401
18	17	2024-01-23	M197_2_0423
19	18	2024-01-24	M197_2_0426
19	18	2024-01-24	M197_2_0448
20	19	2024-01-25	M197_2_0451
20	19	2024-01-25	M197_2_0459
20	19	2024-01-25	M197_2_0473
21	20	2024-01-26	M197_2_0476
21	20	2024-01-26	M197_2_0498
22	21	2024-01-27	M197_2_0501
22	21	2024-01-27	M197_2_0509
22	21	2024-01-27	M197_2_0523
23	22	2024-01-28	M197_2_0526
23	22	2024-01-28	M197_2_0548
24	23	2024-01-29	M197_2_0551
24	23	2024-01-29	M197_2_0559
24	23	2024-01-29	M197_2_0573
25	24	2024-01-30	M197_2_0576
25	24	2024-01-30	M197_2_0582
25	24	2024-01-30	M197_2_0598
26	25	2024-01-31	M197_2_0601
26	25	2024-01-31	M197_2_0607
26	25	2024-01-31	M197_2_0623
27	26	2024-02-01	M197_2_0626
27	26	2024-02-01	M197_2_0632
27	26	2024-02-01	M197_2_0648
28	27	2024-02-02	M197_2_0651
28	27	2024-02-02	M197_2_0657
28	27	2024-02-02	M197_2_0673

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29	28	2024-02-03	M197_2_0676
29	28	2024-02-03	M197_2_0698
30	29	2024-02-04	M197_2_0701
30	29	2024-02-04	M197_2_0711

Bottle	Time stamp [UTC]	TSG system	Latitude [N]	Longitude [E]
	07.01.2024			
K20 F22	03:25	MMC2	33°16,984'	32°23,148'
	08.01.2024			
K20 F23	06:05	MMC2	33°30,640'	32°17,809'
K20 52 4	09.01.2024		24006 2224	22.22.024/
K20 F24	03:23 10.01.2024	MMC2	34°06,322'	32,22,031'
K22 F03	04:42	MMC2	33°46,273'	32°09,437'
1122105	11.01.2024	1111102	33 10,273	32 03,137
K22 F06	03:30	MMC2	33°20,734'	33°20,779'
	12.01.2024			
K22 F05	04:59	MMC2	34°02,407'	34°07,775ʻ
	13.01.2024			
K22 F07	05:44	MMC2	33°37,100ʻ	32°33,778'
	14.01.2024			
K22 F08	03:31	MMC2	34°04,454'	32°41,013'
	15.01.2024			ŗ
K22 F09	14:02	MMC2	33°48,050'	30°17,732'
	16.01.2024			
K22 F10	12:08	MMC2	33°46,843'	27°41,117'
	17.01.2024			
K22 F11	21:26	MMC2	34°00,503'	26°31,185'
K22 F12	18.01.2024 04:52	MMC2	34°21,542'	26°06,240'
NZZ FIZ	04.32 19.01.2024	IVIIVICZ	54 21,542	20 00,240
K22 F13	03:31	MMC2	34°15,350'	25°28,765'
	21.01.2024			,
K22 F14	19:31	MMC2	33°43,586'	24°41,099'
	22.01.2024			
K22 F15	04:44	MMC2	34°22,861'	24°52,438'
	23.01.2024			
K22 F16	06:09	MMC2	34°34,240'	23°59,461'
KJJ E17	24.01.2024		24º21 0254	22826 0204
K22 F17	11:56 25.01.2024	MMC2	34°31,025'	23°36,020'
K22 F18	14:26	MMC2	34°47,978'	22°52,226'
	26.01.2024		01 17,070	22 32,220
K22 F19	18:34	MMC2	35°10,473'	22°46,555'
	27.01.2024			·
K22 F20	15:32	MMC2	35°33,153'	22°37,895'
	28.01.2024			
K22 F22	20:43	MMC2	35°24,619ʻ	21°54,733'
K22 F23	30.01.2024	MMC2	35°55,608'	21°26,722'

# 12.3 Underway Samples for Collected Salinity Analysis.

	31.01.2024			
K22 F24	05:53	MMC2	36°27,977'	21°09,452'
	03.02.2024			
K34 F01	07:25	MMC2	37°32,697'	19°23,636'
	04.02.2024			
K34 F02	08:23	MMC2	37°27,595'	18°48,201'

12.4 Total Oxygen Samples Taken with SS CTD										
Date	Station No.	Cast	Bedford No.	Bottle No.	Bottle factor	Factor Sodium thiosulphate	titr. [mL] Sodium thiosulpha te	O ₂ [μmol/L] corr.		
07.01.24	1	1	M197_1_0001	7	50.2700138	0.98931539	3.81	188.967668		
07.01.24	1	1	M197_1_0007	15	46.5880329	0.98931539	4.09	188.031873		
07.01.24	1	1	M197_1_0009	23	50.2801544	0.98931539	3.67	182.041676		
07.01.24	1	1	M197_1_0017	27	50.6306522	0.98931539	4.01	200.342331		
07.01.24	1	1	M197_1_0022	28	52.043892	0.98931539	4.19	215.200841		
07.01.24	1	2	M197_1_0033	52	50.4787172	0.98931539	4.46	222.212234		
08.01.24	2	4	M197_1_0064	7	50.2700138	1.00040016	3.79	190.087701		
08.01.24	2	4	M197_1_0070	15	46.5880329	1.00040016	4.07	189.214465		
08.01.24	2	4	M197_1_0072	23	50.2801544	1.00040016	3.62	181.574901		
08.01.24	2	4	M197_1_0080	27	50.6306522	1.00040016	4.03	203.608697		
08.01.24	2	4	M197_1_0085	28	52.043892	1.00040016	4.19	217.620907		
08.01.24	2	5	M197_1_0096	52	50.4787172	1.00040016	4.45	224.205605		
09.01.24	3	7	M197_1_0126	7	50.2700138	1.00040016	3.77	189.0819		
09.01.24	3	7	M197_1_0133	15	46.5880329	1.00040016	4.03	187.350203		
09.01.24	3	7	M197_1_0135	23	50.2801544	1.00040016	3.63	182.077903		
09.01.24	3	7	M197_1_0143	27	50.6306522	1.00040016	3.77	190.439405		
09.01.24	3	7	M197_1_0147	28	52.043892	1.00040016	3.93	204.084115		
09.01.24	3	8	M197_1_0158	52	50.4787172	1.00040016	4.57	230.265453		
10.01.24	4	10	M197_1_0189	7	50.2700138	0.99840256	3.81	190.710402		
10.01.24	4	10	M197_1_0196	15	46.5880329	0.99840256	4.05	187.904959		
10.01.24	4	10	M197_1_0198	23	50.2801544	0.99840256	3.69	184.724789		
10.01.24	4	10	M197_1_0206	27	50.6306522	0.99840256	3.86	194.607098		
10.01.24	4	10	M197_1_0210	28	52.043892	0.99840256	4.19	217.184783		
10.01.24	4	11	M197_1_0221	52	50.4787172	0.99840256	4.46	224.260359		
11.01.24	5	13	M197_1_0246	7	50.2700138	0.99920064	3.78	189.356566		
11.01.24	5	13	M197_1_0251	15	46.5880329	0.99920064	4.06	188.521235		
11.01.24	5	13	M197_1_0253	23	50.2801544	0.99920064	3.68	184.370662		
11.01.24	5	13	M197_1_0261	27	50.6306522	0.99920064	3.58	180.597965		
11.01.24	5	13	M197_1_0265	28	52.043892	0.99920064	4.02	208.518656		
11.01.24	5	14	M197_1_0276	52	50.4787172	0.99920064	4.52	227.466527		
12.01.24	6	16	M197_1_0315	7	50.2700138	0.99601594	3.77	188.24991		
12.01.24	6	16	M197_1_0320	15	46.5880329	0.99601594	4.02	186.062024		
12.01.24	6	16	M197_1_0322	23	50.2801544	0.99601594	3.7	184.782189		
12.01.24	6	16	M197_1_0330	27	50.6306522	0.99601594	3.6	181.028487		
12.01.24	6	16	M197_1_0334	28	52.043892	0.99601594	4.1	211.99845		
12.01.24	6	17	M197_1_0345	52	50.4787172	0.99601594	4.43	222.214124		
13.01.24	7	19	M197_1_0376	64	49.6294145	0.99601594	3.67	180.907549		

12.4 Total Oxygen Samples Taken with SS CTD

13.01.24	7	19	M197_1_0380	73	49.5160333	0.99601594	3.63	178.522729
13.01.24	7	19	M197_1_0385	77	49.4106587	0.99601594	3.97	194.874317
13.01.24	7	19	M197_1_0390	81	50.0680572	0.99601594	4.32	214.92174
13.01.24	7	20	M197_1_0401	286	46.7103149	0.99601594	4.13	191.66811
14.01.24	8	22	M197_1_0440	64	49.6294145	0.99641291	3.36	165.650067
14.01.24	8	22	M197_1_0446	73	49.5160333	0.99641291	3.79	186.488359
14.01.24	8	22	M197_1_0449	74	50.323852	0.99641291	3.66	183.012265
14.01.24	8	22	M197_1_0455	77	49.4106587	0.99641291	3.84	188.551958
14.01.24	8	22	M197_1_0459	81	50.0680572	0.99641291	4.06	202.036695
14.01.24	8	23	M197_1_0470	286	46.7103149	0.99641291	4.95	229.909755
15.01.24	9	25	M197_1_0492	98	49.6244741	0.99641291	3.84	189.367868
15.01.24	9	25	M197_1_0498	286	46.7103149	0.99641291	4.07	188.952226
15.01.24	9	25	M197_1_0501	77	49.4106587	0.99641291	3.77	185.105627
15.01.24	9	25	M197_1_0507	269	47.1255693	0.99641291	4.09	191.57073
15.01.24	9	25	M197_1_0511	274	46.6229052	0.99641291	4.51	209.040418
15.01.24	9	26	M197_1_0522	280	46.5401686	0.99641291	4.95	229.073012
16.01.24	10	28	M197_1_0561	64	49.6294145	0.99601594	3.85	189.805227
16.01.24	10	28	M197_1_0563	73	49.5160333	0.99601594	3.86	189.866088
16.01.24	10	28	M197_1_0567	77	49.4106587	0.99601594	3.81	187.000128
16.01.24	10	28	M197_1_0576	81	50.0680572	0.99601594	3.86	191.982175
16.01.24	10	28	M197_1_0580	84	50.1688322	0.99601594	4.15	206.86043
16.01.24	10	29	M197_1_0591	92	50.2143135	0.99601594	4.56	227.55329
17.01.24	11	31	M197_1_0625	7	50.2700138	0.99720782	3.85	192.486459
17.01.24	11	31	M197_1_0628	15	46.5880329	0.99720782	4.16	192.789617
17.01.24	11	31	M197_1_0632	23	50.2801544	0.99720782	3.73	186.508412
17.01.24	11	31	M197_1_0640	27	50.6306522	0.99720782	3.76	189.324353
17.01.24	11	31	M197_1_0644	28	52.043892	0.99720782	3.84	198.759488
17.01.24	11	32	M197_1_0655	52	50.4787172	0.99720782	4.54	228.018088
18.01.24	12	34	M197_1_0697	7	50.2700138	0.99641291	3.84	191.831518
18.01.24	12	34	M197_1_0700	15	46.5880329	0.99641291	4.2	194.492206
18.01.24	12	34	M197_1_0705	23	50.2801544	0.99641291	3.74	186.860129
18.01.24	12	34	M197_1_0711	27	50.6306522	0.99641291	3.86	194.217749
18.01.24	12	34	M197_1_0716	28	52.043892	0.99641291	3.77	194.970426
18.01.24	12	35	M197_1_0727	52	50.4787172	0.99641291	4.58	229.847616
19.01.24	13	37	M197_1_0761	7	50.2700138	0.99720782	3.9	194.992939
19.01.24	13	37	M197_1_0764	15	46.5880329	0.99720782	4.19	194.183351
19.01.24	13	37	M197_1_0769	23	50.2801544	0.99720782	3.72	186.007015
19.01.24	13	37	M197_1_0775	27	50.6306522	0.99720782	4.39	221.132732
19.01.24	13	37	M197_1_0780	28	52.043892	0.99720782	4.25	220.03785
19.01.24	13	38	M197_1_0791	52	50.4787172	0.99720782	4.5	226.004584
20.01.24	15	40	M197_1_0830	7	50.2700138	0.99840256	3.85	192.717988
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20.01.24	15	40	M197_1_0833	15	46.5880329	0.99840256	4.14	192.091172
20.01.24	15	40	M197_1_0837	23	50.2801544	0.99840256	3.78	189.242766
20.01.24	15	40	M197_1_0843	27	50.6306522	0.99840256	3.62	182.475103
20.01.24	15	40	M197_1_0849	28	52.043892	0.99840256	3.9	202.116202
20.01.24	15	41	M197_1_0860	52	50.4787172	0.99840256	4.42	222.244443
22.01.24	17	43	M197_1_0893	7	50.2700138	1.00200401	3.82	191.904795
22.01.24	17	43	M197_1_0896	15	46.5880329	1.00200401	4.07	189.518949
22.01.24	17	43	M197_1_0901	23	50.2801544	1.00200401	3.86	193.958624
22.01.24	17	43	M197_1_0905	27	50.6306522	1.00200401	3.6	182.121456
22.01.24	17	43	M197_1_0912	28	52.043892	1.00200401	3.92	203.89109
22.01.24	17	44	M197_1_0927	52	50.4787172	1.00200401	4.6	232.153236
23.01.24	18	46	M197_1_0957	7	50.2700138	1.00120144	3.92	196.78351
23.01.24	18	46	M197_1_0960	15	46.5880329	1.00120144	4.24	197.296044
23.01.24	18	46	M197_1_0965	23	50.2801544	1.00120144	3.86	193.802659
23.01.24	18	46	M197_1_0969	27	50.6306522	1.00120144	3.63	183.495719
23.01.24	18	46	M197_1_0976	28	52.043892	1.00120144	3.96	205.811399
23.01.24	18	47	M197_1_0991	52	50.4787172	1.00120144	4.65	234.493635
24.01.24	19	49	M197_1_1026	7	50.2700138	0.99960016	3.9	195.462565
24.01.24	19	49	M197_1_1029	15	46.5880329	0.99960016	4.23	196.513672
24.01.24	19	49	M197_1_1034	23	50.2801544	0.99960016	3.8	190.475881
24.01.24	19	49	M197_1_1038	27	50.6306522	0.99960016	3.61	182.188801
24.01.24	19	49	M197_1_1045	28	52.043892	0.99960016	4.03	209.122576
24.01.24	19	50	M197_1_1060	52	50.4787172	0.99960016	4.07	204.851525
25.01.24	20	52	M197_1_1092	7	50.2700138	1.00080064	3.92	196.704428
25.01.24	20	52	M197_1_1095	15	46.5880329	1.00080064	4.23	196.750527
25.01.24	20	52	M197_1_1100	23	50.2801544	1.00080064	3.79	190.202349
25.01.24	20	52	M197_1_1104	27	50.6306522	1.00080064	3.66	184.942096
25.01.24	20	52	M197_1_1111	28	52.043892	1.00080064	3.94	204.686984
25.01.24	20	53	M197_1_1126	52	50.4787172	1.00080064	4.59	231.368319
26.01.24	21	55	M197_1_1161	7	50.2700138	0.99681021	3.92	195.917078
26.01.24	21	55	M197_1_1164	15	46.5880329	0.99681021	4.24	196.427608
26.01.24	21	55	M197_1_1169	28	52.043892	0.99681021	3.68	190.379483
26.01.24	21	55	M197_1_1174	27	50.6306522	0.99681021	3.66	184.201623
26.01.24	21	55	M197_1_1180	23	50.2801544	0.99681021	4.1	204.978023
26.01.24	21	56	M197_1_1195	52	50.4787172	0.99681021	4.65	233.461794
27.01.24	22	58	M197_1_1215	7	50.2700138	0.99681021	3.91	195.415982
27.01.24	22	58	M197_1_1217	15	46.5880329	0.99681021	4.22	195.498823
27.01.24	22	58	M197_1_1224	23	50.2801544	0.99681021	3.78	188.939726
27.01.24	22	58	M197_1_1229	27	50.6306522	0.99681021	4.03	202.875285
27.01.24	22	58	M197_1_1234	28	52.043892	0.99681021	4.03	208.536695
27.01.24	22	59	M197_1_1249	52	50.4787172	0.99681021	4.64	232.958618

28.01.24	23	61	M197_1_1278	7	50.2700138	0.99920064	3.93	196.891031
28.01.24	23	61	M197_1_1279	15	46.5880329	0.99920064	4.27	198.296874
28.01.24	23	61	M197_1_1286	23	50.2801544	0.99920064	3.73	186.882656
28.01.24	23	61	M197_1_1291	27	50.6306522	0.99920064	4.32	218.034853
28.01.24	23	61	M197_1_1297	28	52.043892	0.99920064	4.29	222.559239
28.01.24	23	62	M197_1_1312	52	50.4787172	0.99920064	4.63	233.014728
29.01.24	24	63	M197_1_1324	7	50.2700138	0.99920064	0	0
29.01.24	24	63	M197_1_1328	15	46.5880329	0.99920064	0	0
29.01.24	24	63	M197_1_1329	23	50.2801544	0.99920064	3.65	182.863466
29.01.24	24	63	M197_1_1330	27	50.6306522	0.99920064	3.88	195.775082
29.01.24	24	63	M197_1_1335	28	52.043892	0.99920064	3.56	184.597664
29.01.24	24	63	M197_1_1336	286	46.7103149	0.99920064	4.31	200.68434
29.01.24	24	63	M197_1_1345	280	46.5401686	0.99920064	4.72	219.02019
29.01.24	24	64	M197_1_1360	52	50.4787172	0.99920064	4.64	233.51911
30.01.24	25	66	M197_1_1395	77	49.4106587	1.00522718	4	198.173533
30.01.24	25	66	M197_1_1402	280	46.5401686	1.00522718	4.2	196.018034
30.01.24	25	66	M197_1_1405	23	50.2801544	1.00522718	3.77	190.036132
30.01.24	25	66	M197_1_1409	27	50.6306522	1.00522718	3.89	197.469463
30.01.24	25	66	M197_1_1416	28	52.043892	1.00522718	4.26	222.336865
30.01.24	25	67	M197_1_1431	52	50.4787172	1.00522718	4.63	234.424746
31.01.24	26	70	M197_1_1459	77	49.4106587	1.00240577	4	197.615207
31.01.24	26	70	M197_1_1465	280	46.5401686	1.00240577	4.25	197.798489
31.01.24	26	70	M197_1_1468	23	50.2801544	1.00240577	3.86	194.0367
31.01.24	26	70	M197_1_1471	27	50.6306522	1.00240577	3.64	184.224894
31.01.24	26	70	M197_1_1480	28	52.043892	1.00240577	4.08	212.320193
31.01.24	26	71	M197_1_1495	52	50.4787172	1.00240577	4.72	238.318625
01.02.24	27	73	M197_1_1528	77	49.4106587	1.00563154	4	198.25355
01.02.24	27	73	M197_1_1534	280	46.5401686	1.00563154	4.21	196.56519
01.02.24	27	73	M197_1_1538	23	50.2801544	1.00563154	3.79	191.124146
01.02.24	27	73	M197_1_1542	27	50.6306522	1.00563154	3.73	189.402646
01.02.24	27	73	M197_1_1549	28	52.043892	1.00563154	4.19	218.763039
01.02.24	27	74	M197_1_1564	52	50.4787172	1.00563154	4.7	238.072749
02.02.24	28	76	M197_1_1591	77	49.4106587	1.00563154	4	198.25355
02.02.24	28	76	M197_1_1597	280	46.5401686	1.00563154	4.23	197.501236
02.02.24	28	76	M197_1_1601	23	50.2801544	1.00563154	3.83	193.146674
02.02.24	28	76	M197_1_1605	27	50.6306522	1.00563154	3.68	186.856847
02.02.24	28	76	M197_1_1612	28	52.043892	1.00563154	4.08	213.005986
02.02.24	28	77	M197_1_1627	52	50.4787172	1.00563154	4.8	243.149029
03.02.24	29	79	M197_1_1654	77	49.4106587	1.00441945	4	198.013691
03.02.24	29	79	M197_1_1660	280	46.5401686	1.00441945	4.24	197.729794
03.02.24	29	79	M197_1_1664	23	50.2801544	1.00441945	3.82	192.407931

03.02.24	29	79	M197_1_1668	27	50.6306522	1.00441945	3.85	195.275987
03.02.24	29	79	M197_1_1675	28	52.043892	1.00441945	4.07	212.22556
03.02.24	29	80	M197_1_1690	52	50.4787172	1.00441945	4.79	242.348021
04.02.24	30	82	M197_1_1702	27	50.6306522	1.00280786	3.97	201.054198
04.02.24	30	82	M197_1_1707	23	50.2801544	1.00280786	4.29	215.795972
04.02.24	30	82	M197_1_1718	28	52.043892	1.00280786	4.67	243.197712

Date	Station No.	Cast	Bedford No.	Bottle No.	Bottle factor	Factor Sodium thiosulphate	titr. [mL] Sodium thiosulphate	O2 [µmol/L] corr.
07.01.24	1	1	M197_2_0024	31	46.7716969	0.98931539	4.79	221.16
07.01.24	1	1	M197_2_0020	33	52.17462	0.98931539	4.33	222.97
07.01.24	1	1	M197_2_0018	34	46.3367603	0.98931539	4.96	226.90
07.01.24	1	1	M197_2_0012	36	52.1910072	0.98931539	3.56	183.28
07.01.24	1	1	M197_2_0009	37	49.5383769	0.98931539	3.64	177.89
07.01.24	1	1	M197_2_0004	39	52.4822211	0.98931539	3.64	188.46
08.01.24	2	2	M197_2_0026	31	46.7716969	1.00040016	4.10	191.37
08.01.24	2	2	M197_2_0030	33	52.17462	1.00040016	3.66	190.50
08.01.24	2	2	M197_2_0032	34	46.3367603	1.00040016	4.05	187.27
08.01.24	2	2	M197_2_0038	36	52.1910072	1.00040016	3.89	202.57
08.01.24	2	2	M197_2_0044	37	49.5383769	1.00040016	4.62	228.45
08.01.24	2	2	M197_2_0048	39	52.4822211	1.00040016	4.27	223.66
09.01.24	3	3	M197_2_0051	31	46.7716969	1.00040016	4.09	190.90
09.01.24	3	3	M197_2_0055	33	52.17462	1.00040016	3.67	191.03
09.01.24	3	3	M197_2_0057	34	46.3367603	1.00040016	4.11	190.05
09.01.24	3	3	M197_2_0063	36	52.1910072	1.00040016	3.64	189.52
09.01.24	3	3	M197_2_0069	37	49.5383769	1.00040016	4.60	227.46
09.01.24	3	3	M197_2_0073	39	52.4822211	1.00040016	4.30	225.23
10.01.24	4	4	M197_2_0076	31	46.7716969	0.99840256	4.19	195.18
10.01.24	4	4	M197_2_0080	33	52.17462	0.99840256	3.67	190.64
10.01.24	4	4	M197_2_0082	34	46.3367603	0.99840256	4.04	186.43
10.01.24	4	4	M197_2_0088	36	52.1910072	0.99840256	3.71	192.79
10.01.24	4	4	M197_2_0094	37	49.5383769	0.99840256	4.69	231.46
10.01.24	4	4	M197_2_0098	39	52.4822211	0.99840256	4.29	224.26
11.01.24	5	5	M197_2_0102	31	46.7716969	0.99920064	4.09	190.67
11.01.24	5	5	M197_2_0105	33	52.17462	0.99920064	3.67	190.80
11.01.24	5	5	M197_2_0107	34	46.3367603	0.99920064	4.09	188.89
11.01.24	5	5	M197_2_0113	36	52.1910072	0.99920064	3.52	183.03
11.01.24	5	5	M197_2_0118	37	49.5383769	0.99920064	4.41	217.78
11.01.24	5	5	M197_2_0121	39	52.4822211	0.99920064	4.38	229.15
12.01.24	6	6	M197_2_0127	31	46.7716969	0.99601594	4.10	190.52
12.01.24	6	6	M197_2_0130	33	52.17462	0.99601594	3.62	187.59
12.01.24	6	6	M197_2_0132	34	46.3367603	0.99601594	4.06	186.90
12.01.24	6	6	M197_2_0138	36	52.1910072	0.99601594	3.51	181.93
12.01.24	6	6	M197_2_0143	37	49.5383769	0.99601594	4.61	226.96
12.01.24	6	6	M197_2_0146	39	52.4822211	0.99601594	4.23	220.58

# 12.5 Total Oxygen Samples Taken with TM CTD

13.01.24	7	7	M197_2_0152	84	50.1688322	0.99601594	3.97	197.87
13.01.24	7	7	M197_2_0157	88	49.6195347	0.99601594	3.70	182.35
13.01.24	7	7	M197_2_0160	92	50.2143135	0.99601594	3.89	194.04
13.01.24	7	7	M197_2_0163	98	49.6244741	0.99601594	4.36	214.99
13.01.24	7	7	M197_2_0171	99	49.7582115	0.99601594	4.51	223.01
14.01.24	8	8	M197_2_0176	88	49.6195347	0.99641291	3.84	189.35
14.01.24	8	8	M197_2_0180	92	50.2143135	0.99641291	3.82	190.62
14.01.24	8	8	M197_2_0182	98	49.6244741	0.99641291	3.93	193.82
14.01.24	8	8	M197_2_0188	99	49.7582115	0.99641291	3.80	187.90
14.01.24	8	8	M197_2_0193	84	50.1688322	0.99641291	4.32	215.44
14.01.24	8	8	M197_2_0196	269	47.1255693	0.99641291	4.87	228.20
15.01.24	9	9	M197_2_0201	64	49.6294145	0.99641291	4.06	200.27
15.01.24	9	9	M197_2_0205	73	49.5160333	0.99641291	4.12	202.77
15.01.24	9	9	M197_2_0207	81	50.0680572	0.99641291	4.01	199.54
15.01.24	9	9	M197_2_0213	99	49.7582115	0.99641291	3.87	191.37
15.01.24	9	9	M197_2_0218	92	50.2143135	0.99641291	4.09	204.13
15.01.24	9	9	M197_2_0221	84	50.1688322	0.99641291	4.52	225.44
16.01.24	10	10	M197_2_0226	98	49.6244741	0.99601594	3.88	191.27
16.01.24	10	10	M197_2_0230	99	49.7582115	0.99601594	3.82	188.81
16.01.24	10	10	M197_2_0232	269	47.1255693	0.99601594	4.03	188.68
16.01.24	10	10	M197_2_0238	274	46.6229052	0.99601594	4.11	190.38
16.01.24	10	10	M197_2_0243	280	46.5401686	0.99601594	4.66	215.54
16.01.24	10	10	M197_2_0246	286	46.7103149	0.99601594	4.97	230.75
17.01.24	11	11	M197_2_0251	31	46.7716969	0.99720782	4.14	192.62
17.01.24	11	11	M197_2_0255	33	52.17462	0.99720782	3.74	194.06
17.01.24	11	11	M197_2_0259	34	46.3367603	0.99720782	4.07	187.59
17.01.24	11	11	M197_2_0263	36	52.1910072	0.99720782	3.59	186.31
17.01.24	11	11	M197_2_0268	37	49.5383769	0.99720782	4.36	214.88
17.01.24	11	11	M197_2_0271	39	52.4822211	0.99720782	4.26	222.42
18.01.24	12	12	M197_2_0276	31	46.7716969	0.99641291	4.02	186.87
18.01.24	12	12	M197_2_0280	33	52.17462	0.99641291	3.81	197.54
18.01.24	12	12	M197_2_0284	34	46.3367603	0.99641291	4.07	187.44
18.01.24	12	12	M197_2_0288	36	52.1910072	0.99641291	3.77	195.52
18.01.24	12	12	M197_2_0293	37	49.5383769	0.99641291	4.64	228.53
18.01.24	12	12	M197_2_0296	39	52.4822211	0.99641291	4.41	230.08
19.01.24	13	13	M197_2_0301	31	46.7716969	0.99720782	3.31	153.91
19.01.24	13	13	M197_2_0305	33	52.17462	0.99720782	3.66	189.89
19.01.24	13	13	M197_2_0309	34	46.3367603	0.99720782	4.08	188.05
19.01.24	13	13	M197_2_0313	36	52.1910072	0.99720782	3.96	205.57
19.01.24	13	13	M197_2_0318	37	49.5383769	0.99720782	4.55	224.26
19.01.24	13	13	M197_2_0321	39	52.4822211	0.99720782	4.34	226.60

20.01.24	15	14	M197_2_0326	31	46.7716969	0.99840256	4.17	194.25
20.01.24	15	14	M197_2_0331	33	52.17462	0.99840256	3.73	193.77
20.01.24	15	14	M197_2_0335	34	46.3367603	0.99840256	4.17	192.44
20.01.24	15	14	M197_2_0337	36	52.1910072	0.99840256	3.76	195.39
20.01.24	15	14	M197_2_0341	37	49.5383769	0.99840256	4.12	203.27
20.01.24	15	14	M197_2_0346	39	52.4822211	0.99840256	4.06	212.20
21.01.24	16	15	M197_2_0351	31	46.7716969	1.00200401	4.19	195.03
21.01.24	16	15	M197_2_0353	33	52.17462	1.00200401	3.88	201.42
21.01.24	16	15	M197_2_0357	34	46.3367603	1.00200401	4.19	193.21
21.01.24	16	15	M197_2_0361	36	52.1910072	1.00200401	3.52	182.74
21.01.24	16	15	M197_2_0366	37	49.5383769	1.00200401	4.12	203.10
21.01.24	16	15	M197_2_0373	39	52.4822211	1.00200401	4.46	232.98
22.01.24	17	16	M197_2_0376	31	46.7716969	1.00120144	4.13	193.08
22.01.24	17	16	M197_2_0381	33	52.17462	1.00120144	3.67	191.33
22.01.24	17	16	M197_2_0385	34	46.3367603	1.00120144	4.03	186.64
22.01.24	17	16	M197_2_0387	36	52.1910072	1.00120144	3.53	184.07
22.01.24	17	16	M197_2_0391	37	49.5383769	1.00120144	4.12	204.00
22.01.24	17	16	M197_2_0398	39	52.4822211	1.00120144	4.40	230.85
23.01.24	18	17	M197_2_0401	31	46.7716969	0.99960016	4.31	201.35
23.01.24	18	17	M197_2_0405	33	52.17462	0.99960016	3.80	197.97
23.01.24	18	17	M197_2_0409	34	46.3367603	0.99960016	4.20	194.38
23.01.24	18	17	M197_2_0412	36	52.1910072	0.99960016	3.63	189.15
23.01.24	18	17	M197_2_0416	37	49.5383769	0.99960016	4.16	205.82
23.01.24	18	17	M197_2_0423	39	52.4822211	0.99960016	4.48	234.87
24.01.24	19	18	M197_2_0426	31	46.7716969	1.00080064	4.25	198.22
24.01.24	19	18	M197_2_0430	33	52.17462	1.00080064	3.81	198.17
24.01.24	19	18	M197_2_0434	34	46.3367603	1.00080064	4.16	192.21
24.01.24	19	18	M197_2_0437	36	52.1910072	1.00080064	3.57	185.72
24.01.24	19	18	M197_2_0441	37	49.5383769	1.00080064	4.23	208.96
24.01.24	19	18	M197_2_0448	39	52.4822211	1.00080064	4.46	233.44
25.01.24	20	19	M197_2_0451	31	46.7716969	0.99681021	4.42	206.42
25.01.24	20	19	M197_2_0455	33	52.17462	0.99681021	3.80	197.89
25.01.24	20	19	M197_2_0459	34	46.3367603	0.99681021	4.15	191.98
25.01.24	20	19	M197_2_0463	36	52.1910072	0.99681021	3.55	184.90
25.01.24	20	19	M197_2_0466	37	49.5383769	0.99681021	4.14	204.75
25.01.24	20	19	M197_2_0473	39	52.4822211	0.99681021	4.43	232.15
26.01.24	21	20	M197_2_0476	31	46.7716969	0.99681021	4.24	197.20
26.01.24	21	20	M197_2_0480	33	52.17462	0.99681021	3.80	197.10
26.01.24	21	20	M197_2_0484	34	46.3367603	0.99681021	4.14	190.75
26.01.24	21	20	M197_2_0488	36	52.1910072	0.99681021	3.66	189.88
26.01.24	21	20	M197_2_0491	37	49.5383769	0.99681021	4.21	207.39

26.01.24	21	20	M197_2_0498	39	52.4822211	0.99681021	4.46	232.79
27.01.24	22	21	M197_2_0501	31	46.7716969	0.99920064	4.22	196.27
27.01.24	22	21	M197_2_0505	33	52.17462	0.99920064	3.79	196.58
27.01.24	22	21	M197_2_0509	34	46.3367603	0.99920064	4.13	190.29
27.01.24	22	21	M197_2_0513	36	52.1910072	0.99920064	3.56	184.68
27.01.24	22	21	M197_2_0516	37	49.5383769	0.99920064	4.22	207.88
27.01.24	22	21	M197_2_0523	39	52.4822211	0.99920064	4.48	233.84
28.01.24	23	22	M197_2_0526	31	46.7716969	0.99920064	4.23	197.21
28.01.24	23	22	M197_2_0530	33	52.17462	0.99920064	3.79	197.05
28.01.24	23	22	M197_2_0534	34	46.3367603	0.99920064	4.07	187.97
28.01.24	23	22	M197_2_0538	36	52.1910072	0.99920064	4.23	220.06
28.01.24	23	22	M197_2_0541	37	49.5383769	0.99920064	4.48	221.25
28.01.24	23	22	M197_2_0548	39	52.4822211	0.99920064	4.47	233.87
29.01.24	24	23	M197_2_0551	31	46.7716969	0.99920064	4.24	197.68
29.01.24	24	23	M197_2_0552	33	52.17462	0.99920064	3.79	197.05
29.01.24	24	23	M197_2_0559	34	46.3367603	1.00522718	4.01	185.19
29.01.24	24	23	M197_2_0560	36	52.1910072	1.00522718	3.88	201.81
29.01.24	24	23	M197_2_0561	77	49.4106587	1.00522718	4.60	226.60
29.01.24	24	23	M197_2_0566	37	49.5383769	1.00522718	4.48	221.25
29.01.24	24	23	M197_2_0573	39	52.4822211	1.00522718	4.48	234.40
30.01.24	25	24	M197_2_0576	31	46.7716969	1.00522718	4.24	198.87
30.01.24	25	24	M197_2_0582	33	52.17462	1.00240577	3.77	197.20
30.01.24	25	24	M197_2_0584	34	46.3367603	1.00240577	4.12	191.43
30.01.24	25	24	M197_2_0587	36	52.1910072	1.00240577	3.75	196.21
30.01.24	25	24	M197_2_0591	37	49.5383769	1.00240577	4.48	222.59
30.01.24	25	24	M197_2_0598	39	52.4822211	1.00240577	4.47	235.29
31.01.24	26	25	M197_2_0601	31	46.7716969	1.00240577	4.23	197.85
31.01.24	26	25	M197_2_0607	33	52.17462	1.00563154	3.81	198.73
31.01.24	26	25	M197_2_0609	34	46.3367603	1.00563154	4.20	194.61
31.01.24	26	25	M197_2_0612	36	52.1910072	1.00563154	3.57	186.24
31.01.24	26	25	M197_2_0617	37	49.5383769	1.00563154	4.14	205.08
31.01.24	26	25	M197_2_0623	39	52.4822211	1.00563154	4.55	238.84
01.02.24	27	26	M197_2_0626	31	46.7716969	1.00563154	4.24	198.95
01.02.24	27	26	M197_2_0632	33	52.17462	1.00563154	3.79	198.33
01.02.24	27	26	M197_2_0634	34	46.3367603	1.00563154	4.14	192.44
01.02.24	27	26	M197_2_0637	36	52.1910072	1.00563154	3.62	189.47
01.02.24	27	26	M197_2_0641	37	49.5383769	1.00563154	4.37	217.20
01.02.24	27	26	M197_2_0648	39	52.4822211	1.00563154	4.53	238.55
02.02.24	28	27	M197_2_0651	31	46.7716969	1.00563154	4.24	198.95
02.02.24	28	27	M197_2_0657	33	52.17462	1.00441945	3.79	198.33
02.02.24	28	27	M197_2_0659	34	46.3367603	1.00441945	4.16	193.38

02.02.24	28	27	M197_2_0662	36	52.1910072	1.00441945	3.61	188.94
02.02.24	28	27	M197_2_0666	37	49.5383769	1.00441945	4.28	212.72
02.02.24	28	27	M197_2_0673	39	52.4822211	1.00441945	4.59	241.72
03.02.24	29	28	M197_2_0676	31	46.7716969	1.00441945	4.24	198.71
03.02.24	29	28	M197_2_0681	33	52.17462	1.00280786	3.80	198.61
03.02.24	29	28	M197_2_0683	34	46.3367603	1.00280786	4.18	194.07
03.02.24	29	28	M197_2_0687	36	52.1910072	1.00280786	3.73	195.00
03.02.24	29	28	M197_2_0691	37	49.5383769	1.00441945	4.29	212.96
03.02.24	29	28	M197_2_0698	39	52.4822211	1.00441945	4.59	241.43
04.02.24	30	29	M197_2_0701	31	46.7716969	1.00280786	4.31	201.68
04.02.24	30	29	M197_2_0705	33	52.17462	1.00280786	4.07	212.42
04.02.24	30	29	M197_2_0711	34	46.3367603	1.00280786		

12.6	<b>Total Oxygen</b>	Samples	Taken from	Cores	Incubation
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Date	Bedford No.	Bottle No.	bottle volume calculated	Bottle factor	Factor Sodium thiosulphate	titr. [mL] Sodium thiosulphate	O ₂ [μmol/L] corr.
03.02.24	M197_INC_26_4	99	102.486	49.7582115	1.00441945	5.13	255.88
03.02.24	M197_INC_26_3	286	109.043	46.7103149	1.00441945	5.45	255.22
04.02.24	M197_INC_28_3	37	102.932	49.5383769	1.00280786	5.32	263.78
04.02.24	M197_INC_28_4	36	97.802	52.1910072	1.00280786	4.89	255.40

Date	Time UTC	Bottle No.	bottle volume calculated	Bottle factor	Factor Sodium thiosulphate	titr. [mL] Sodium thiosulphate	O₂ [μmol/L]	O ₂ [μmol/L] corr.
20.01.24		92	101.573	50.2143135	0.998402556	4.79	240.14	239.63
21.01.24	15:58	92	101.573	50.2143135	0.997605746	4.68	234.44	233.93
22.01.24	7:16	92	101.573	50.2143135	1.002004008	4.60	231.45	230.94
23.01.24	10:00	92	101.573	50.2143135	1.001201442	4.66	234.28	233.77
24.01.24	6:54	92	101.573	50.2143135	0.99960016	4.65	233.40	232.89
25.01.24	9:45	92	101.573	50.2143135	1.000800641	4.62	232.18	231.67
26.01.24	8:25	92	101.573	50.2143135	0.996810207	4.66	233.25	232.74
27.01.24	13:34	92	101.573	50.2143135	0.996810207	4.66	233.25	232.74
28.01.24	8:45	92	101.573	50.2143135	0.999200639	4.65	233.31	232.80
29.01.24	10:45	92	101.573	50.2143135	0.999200639	4.67	234.31	233.80
30.01.24	8:10	92	101.573	50.2143135	1.005227181	4.64	234.21	233.70
31.01.24	12:00	92	101.573	50.2143135	1.002405774	4.71	237.08	236.57
01.02.24	8:55	92	101.573	50.2143135	1.005631537	4.71	237.84	237.33
02.02.24	8:07	92	101.573	50.2143135	1.005631537	4.7	237.34	236.83
03.02.24	7:32	92	101.573	50.2143135	1.004419446	4.8	242.09	241.58
04.02.24		92	101.573	50.2143135	1.002807862	4.82	242.71	242.20

# 12.7 Total Oxygen Samples Taken for EXO Oxygen Sensors Calibration

Station/Date	Sample Name	Depth [m]	Station/Date	Sample Name	Depth [m]
Station 1	M197_1_0049	703	Station 3	M197_1_0174	400
07.01.2024	M197_1_0050	500	09.01.2024	M197_1_0175	300
	M197_1_0051	400		M197_1_0176	200
	M197_1_0052	300		M197_1_0177	150
	M197_1_0053	250		M197_1_0178	100
	M197_1_0054	200		M197_1_0179	70
	M197_1_0055	160		M197_1_0180	45
	M197_1_0056	120		M197_1_0181	30
	M197_1_0057	95		M197_1_0182	20
	M197_1_0058	80		M197_1_0183	15
	M197_1_0059	60		M197_1_0184	10
	M197_1_0060	45		M197_1_0185	5
	M197_1_0061	19		M197_1_0186	
	M197_1_0062	15		M197_1_0187	
	M197_1_0063	5		M197_1_0188	
Station/Date	Sample Name	Depth [m]	Station/Date	Sample Name	Depth [m]
Station 5	M197_1_292	703	Station 7	M197_1_417	700
11.01.2024	M197_1_294	499	13.01.2024	M197_1_419	500
	M197_1_296	400		M197_1_421	400
	M197_1_297	280		M197_1_422	297
	M197_1_299	250		M197_1_424	250
	M197_1_300	200		M197_1_425	200
	M197_1_301	150		M197_1_426	150
	M197_1_303	120		M197_1_428	130
	M197 1 304	100		M197 1 429	110
	M197 1 305	90		M197 1 430	105
	M197 1 307	80		M197 1 432	80
	M197_1_308	60		M197_1_433	60
	M197 1 309	40		M197 1 343	40
	M197 1 311	20		M197 1 436	15
	M197 1 312	5		M197 1 437	5
Station/Date	Sample Name	Depth [m]	Station/Date	Sample Name	Depth [m]
Station 9	M197 1 538	675	Station 11	M197 1 671	703
15.01.2024	M197 1 540	500	17.01.2024	M197 1 672	500
	M197_1_542	400		M197_1_673	400
	M197 1 543	300		M197_1_673	300
	M197 1 545	240		M197 1 675	250
	M197_1_546	200		M197_1_676	200
	M197 1 547	150		M197_1_677	150
	M197_1_549	130		M197_1_077 M197_1_678	130
	M197_1_549 M197_1_550	120		M197_1_678	120

# 12.8 Samples for Dissolved Thorium and Uranium

	M197 1 551	85		M197 1 683	95
	M197 1 553	70		M197 1 687	80
	M197 1 554	53		M197 1 688	60
	M197 1 555	30		M197 1 689	45
	M197 1 557	20		M197 1 690	20
	M197 1 558	5		M197 1 694	5
Station/Date	Sample Name	Depth [m]	Station/Date	Sample Name	Depth [m]
Station 13	M197_1_807	700	Station 16	M197_1_876	663
19.01.2024	M197_1_808	550	21.01.2024	M197_1_877	500
	M197_1_810	400		M197_1_878	400
	M197_1_812	300		M197_1_879	300
	M197_1_814	250		M197_1_880	250
	M197_1_815	200		M197_1_881	200
	M197_1_817	150		M197_1_882	150
	M197_1_818	120		M197_1_883	120
	M197_1_819	110		M197_1_884	100
	M197_1_820	101		M197_1_885	90
	M197_1_822	80		M197_1_886	80
	M197_1_823	60		M197_1_887	60
	M197_1_824	40		M197_1_888	40
	M197_1_826	20		M197_1_889	20
	M197_1_827	5		M197_1_890	5
Station/Date	Sample Name	Depth [m]	Station/Date	Sample Name	Depth [m]
Station 18	M197_1_1003	700	Station 20	M197_1_1138	700
23.01.2024	M197_1_1005	500	25.01.2024	M197_1_1140	556
	M197_1_1007	400		M197_1_1142	400
	M197_1_1008	300		M197_1_1143	295
	M197_1_1010	250		M197_1_1145	250
	M197_1_1011	200		M197_1_1146	199
	M197_1_1012	150		M197_1_1147	155
	M197_1_1014	120		M197_1_1149	120
	M197_1_1015	105		M197_1_1150	105
	M197_1_1017	95		M197_1_1152	95
	M197_1_1018	80		M197_1_1153	80
	M197_1_1019	60		M197_1_1154	60
	M197_1_1020	40		M197_1_1155	40
	M197_1_1022	20		M197_1_1157	20
	M197_1_1023	5		M197_1_1158	5
Station/Date	Sample Name	Depth [m]	Station/Date	Sample Name	Depth [m]
Station 22	M197_1_1261	700	Station 24	M197_1_1372	reale Tiefe
27.01.2024	M197_1_1262	500	29.01.2024	M197_1_1373	700
	M197_1_1263	400		M197_1_1374	500
		200		M197 1 1375	400
	M197_1_1264	300			100

			1	1	
	M197_1_1266	200		M197_1_1377	250
	M197_1_1267	145		M197_1_1378	200
	M197_1_1268	120		M197_1_1379	15
	M197_1_1269	100		M197_1_1380	120
	M197_1_1270	90		M197_1_1381	110
	M197_1_1271	80		M197_1_1382	105
	M197_1_1272	60		M197_1_1383	80
	M197_1_1273	40		M197_1_1384	60
	M197_1_1274	20		M197_1_1385	40
	M197_1_1275	5		M197_1_1386	20
Station/Date	Sample Name	Depth [m]	Station/Date	Sample Name	Depth [m]
Station 26	M197_1_1507	700	Station 28		
31.01.2024	M197_1_1510	500	02.02.2024		
	M197_1_1511	400			
	M197_1_1512	300			
	M197_1_1514	250			
	M197_1_1515	200			
	M197_1_1516	15			
	M197_1_1518	120			
	M197_1_1519	110			
	M197_1_1520	105			
	M197_1_1521	80			
	M197_1_1523	60			
	M197_1_1524	40			
	M197_1_1526	20			
	M197_1_1527	5			
Station/Date	Sample Name	Depth [m]			
Station 19	M197_1_1072	1000			
24.01.2024	M197_1_1073	1000			

## 12.9 Samples Taken from the In-situ Pumps.

(particulate thorium (pTh), particulate inorganic carbon (PIC), particulate organic carbon (POC), particulate organic phosphorous (POP), biogenic silicate (BSi), genomics, aminoacids (AA), aminosugars (AAS))

Station/Date	Depth [m]	Pore-size [µm]	Parameters
Station 3	600	51	pTh, PIC, BSi, POP, POC, genomics
09.01.2024	600	1	pTh, PIC, BSi, POP, POC, genomics
	400	51	PIC, BSi, POP, POC
	400	1	PIC, BSi, POP, POC
	300	51	pTh, PIC, BSi, POP, POC, genomics
	300	1	pTh, PIC, BSi, POP, POC, genomics
	200	1	PIC, BSi, POP, POC
	160	51	pTh, PIC, BSi, POP, POC, genomics
	160	1	pTh, PIC, BSi, POP, POC, genomics
	130	51	PIC, BSi, POP, POC
	130	1	PIC, BSi, POP, POC
	105	51	pTh, PIC, BSi, POP, POC, genomics
	105	1	pTh, PIC, BSi, POP, POC, genomics
	60	51	pTh, PIC, BSi, POP, POC, genomics
	60	1	pTh, PIC, BSi, POP, POC, genomics
Station/Date	Depth [m]	Pore-size [µm]	Station/Date
Station 4	1000	1	POP, POC, AAS AA
10.01.2024	800	51	POP, POC, AAS AA
	800	1	POP, POC, AAS AA
	500	51	POP, POC, AAS AA
	500	1	POP, POC, AAS AA
	300	51	POP, POC, AAS AA
	300	1	POP, POC, AAS AA
	200	51	POP, POC, AAS AA
	200	1	POP, POC, AAS AA
	160	1	POP, POC, AAS AA
	105	51	POP, POC, AAS AA
	105	1	POP, POC, AAS AA
	60	51	POP, POC, AAS AA
	60	1	POP, POC, AAS AA
	20	51	POP, POC, AAS AA
	20	1	POP, POC, AAS AA
Station/Date	Depth [m]	Pore-size [µm]	Station/Date
Station 5	700	51	pTh, PIC, BSi, POP, POC, genomics
11.01.2024	700	1	pTh, PIC, BSi, POP, POC, genomics
	500	1	PIC, BSi, POP, POC
	300	51	pTh, PIC, BSi, POP, POC, genomics
	300	1	pTh, PIC, BSi, POP, POC, genomics
	200	1	PIC, BSi, POP, POC
	150	51	pTh, PIC, BSi, POP, POC, genomics
	150	1	pTh, PIC, BSi, POP, POC, genomics

	125	51	PIC, BSi, POP, POC
	125	1	PIC, BSi, POP, POC
	90	51	pTh, PIC, BSi, POP, POC, genomics
	90	1	pTh, PIC, BSi, POP, POC, genomics
	70	51	pTh, PIC, BSi, POP, POC, genomics
	70	1	pTh, PIC, BSi, POP, POC, genomics
	20	51	pTh, PIC, BSi, POP, POC, genomics
	20	1	pTh, PIC, BSi, POP, POC, genomics
Station/Date	-	-	Station/Date
Station/Date	Depth [m] 1000	Pore-size [µm]	POP, POC, AAS AA, Nd and Sr Isotopes
		-	
12.01.2024	800	51	POP, POC, AAS AA, Nd and Sr Isotopes
	800	1	POP, POC, AAS AA, Nd and Sr Isotopes
	500	51	POP, POC, AAS AA, Nd and Sr Isotopes
	500	1	POP, POC, AAS AA, Nd and Sr Isotopes
	300	51	POP, POC, AAS AA, Nd and Sr Isotopes
	300	1	POP, POC, AAS AA, Nd and Sr Isotopes
	200	51	POP, POC, AAS AA, Nd and Sr Isotopes
	200	1	POP, POC, AAS AA, Nd and Sr Isotopes
	150	1	POP, POC, AAS AA, Nd and Sr Isotopes
	105	51	POP, POC, AAS AA, Nd and Sr Isotopes
	105	1	POP, POC, AAS AA, Nd and Sr Isotopes
	60	51	POP, POC, AAS AA, Nd and Sr Isotopes
	60	1	POP, POC, AAS AA, Nd and Sr Isotopes
	20	51	POP, POC, AAS AA, Nd and Sr Isotopes
		1	POP, POC, AAS AA, Nd and Sr Isotopes
	20	1	
Station/Date	20 Depth [m]	Pore-size [µm]	Station/Date
Station/Date	-	-	
	Depth [m]	Pore-size [µm]	Station/Date
Station 7	<b>Depth [m]</b> 700	Pore-size [µm]	Station/Date pTh, PIC, BSi, POP, POC, genomics
Station 7	<b>Depth [m]</b> 700 700	<b>Pore-size [μm]</b> 51 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics
Station 7	<b>Depth [m]</b> 700 700 500	<b>Pore-size [μm]</b> 51 1 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC
Station 7	<b>Depth [m]</b> 700 700 500 300	<b>Pore-size [μm]</b> 51 1 1 51	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomics
Station 7	Depth [m] 700 700 500 300 300	<b>Pore-size [μm]</b> 51 1 1 51 1 1 51 1 51 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics
Station 7	Depth [m] 700 700 500 300 300 200	Pore-size [μm] 51 1 1 51 1 51 1 1 1 1 1 1 1 1 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC
Station 7	Depth [m] 700 500 300 300 200 150	Pore-size [μm] 51 1 1 51 1 51 1 51 51 51 51 51 51	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomics
Station 7	Depth [m] 700 500 300 300 200 150 150	Pore-size [μm] 51 1 1 51 1 51 1 51 1 1 51 1 1 1 51 1 1 51 1 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics
Station 7	Depth [m] 700 500 300 200 150 150 130	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 51	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC
Station 7	Depth [m] 700 500 300 300 200 150 150 130 130	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 1 51 1 51 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POC
Station 7	Depth [m] 700 700 500 300 200 150 150 130 130 130 105	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 1 51 1 51 51 5	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics
Station 7	Depth [m] 700 500 300 300 200 150 150 130 130 130 105 105	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 5	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomics
Station 7	Depth [m] 700 700 500 300 200 150 150 130 130 130 105 105 60	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 5	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics
Station 7	Depth [m] 700 500 300 300 200 150 150 150 130 130 130 105 105 60 60	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 5	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics
Station 7 13.01.2024	Depth [m] 700 700 500 300 200 150 150 130 130 105 105 60 60 15 15 15	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics
Station 7 13.01.2024	Depth [m]         700         700         500         300         300         200         150         150         130         105         60         60         15         15         Depth [m]	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         Pore-size [μm]	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics
Station 7 13.01.2024	Depth [m] 700 700 500 300 200 150 150 130 130 105 105 60 60 15 15 15	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics

	500	51	POP, POC, AAS AA, Nd and Sr Isotopes
	500	1	POP, POC, AAS AA, Nd and Sr Isotopes
	300	51	POP, POC, AAS AA, Nd and Sr Isotopes
	300	1	POP, POC, AAS AA, Nd and Sr Isotopes
	200	51	POP, POC, AAS AA, Nd and Sr Isotopes
	200	1	POP, POC, AAS AA, Nd and Sr Isotopes
	150	1	POP, POC, AAS AA, Nd and Sr Isotopes
	110	51	POP, POC, AAS AA, Nd and Sr Isotopes
	110	1	POP, POC, AAS AA, Nd and Sr Isotopes
	60	51	POP, POC, AAS AA, Nd and Sr Isotopes
	60	1	POP, POC, AAS AA, Nd and Sr Isotopes
	20	51	POP, POC, AAS AA, Nd and Sr Isotopes
	20	1	POP, POC, AAS AA, Nd and Sr Isotopes
Station/Date	Depth [m]	Pore-size [µm]	Station/Date
Station 9	675	51	pTh, PIC, BSi, POP, POC, genomics
15.01.2024	675	1	pTh, PIC, BSi, POP, POC, genomics
	500	1	PIC, BSi, POP, POC
	300	51	pTh, PIC, BSi, POP, POC, genomics
	300	1	pTh, PIC, BSi, POP, POC, genomics
	200	1	PIC, BSi, POP, POC
	150	51	pTh, PIC, BSi, POP, POC, genomics
	150	1	pTh, PIC, BSi, POP, POC, genomics
	120	51	PIC, BSi, POP, POC
	120	1	PIC, BSi, POP, POC
	85	51	pTh, PIC, BSi, POP, POC, genomics
	85	1	pTh, PIC, BSi, POP, POC, genomics
	53	51	pTh, PIC, BSi, POP, POC, genomics
	53	1	pTh, PIC, BSi, POP, POC, genomics
	20	51	pTh, PIC, BSi, POP, POC, genomics
	20	1	pTh, PIC, BSi, POP, POC, genomics
Station/Date	Depth [m]	Pore-size [µm]	Station/Date
Station 10	680	51	POP, POC, AAS AA, Nd and Sr Isotopes
16.01.2024	680	1	POP, POC, AAS AA, Nd and Sr Isotopes
	500	51	POP, POC, AAS AA, Nd and Sr Isotopes
	500	1	POP, POC, AAS AA, Nd and Sr Isotopes
	300	51	POP, POC, AAS AA, Nd and Sr Isotopes
	300	1	POP, POC, AAS AA, Nd and Sr Isotopes
	200	51	POP, POC, AAS AA, Nd and Sr Isotopes
	200	1	POP, POC, AAS AA, Nd and Sr Isotopes
	150	1	POP, POC, AAS AA, Nd and Sr Isotopes
	87	51	POP, POC, AAS AA, Nd and Sr Isotopes
	87	1	POP, POC, AAS AA, Nd and Sr Isotopes
	60	51	POP, POC, AAS AA, Nd and Sr Isotopes
	60	1	POP, POC, AAS AA, Nd and Sr Isotopes
	20	51	POP, POC, AAS AA, Nd and Sr Isotopes
	20	1	POP, POC, AAS AA, Nd and Sr Isotopes
			,, . ,

Station/Date	Depth [m]	Pore-size [µm]	Station/Date					
Station 11	700	51	pTh, PIC, BSi, POP, POC, genomics					
17.01.2024	700	1	pTh, PIC, BSi, POP, POC, genomics					
	500	1	PIC, BSi, POP, POC					
	350	51	pTh, PIC, BSi, POP, POC, genomics					
	350	1	pTh, PIC, BSi, POP, POC, genomics					
	200	1	PIC, BSi, POP, POC					
	150	51	pTh, PIC, BSi, POP, POC, genomics					
	150	1	pTh, PIC, BSi, POP, POC, genomics					
	120	51	PIC, BSi, POP, POC					
	120	1	PIC, BSi, POP, POC					
	95	51	pTh, PIC, BSi, POP, POC, genomics					
	95	1	pTh, PIC, BSi, POP, POC, genomics					
	60	51	pTh, PIC, BSi, POP, POC, genomics					
	60	1	pTh, PIC, BSi, POP, POC, genomics					
	20	51	pTh, PIC, BSi, POP, POC, genomics					
	20	1	pTh, PIC, BSi, POP, POC, genomics					
Station/Date	Depth [m]	Pore-size [µm]	Station/Date					
Station 12	1000	1	POP, POC, AAS AA, Nd and Sr Isotopes					
18.01.2024	775	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	775	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	500	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	500	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	300	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	300	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	210	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	210	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	150	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	95	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	95	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	60	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	60	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	20	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	20	1	POP, POC, AAS AA, Nd and Sr Isotopes					
Station/Date	Depth [m]	Pore-size [µm]	Station/Date					
Station 13	700	51	pTh, PIC, BSi, POP, POC, genomics					
19.01.2024	700	1	pTh, PIC, BSi, POP, POC, genomics					
	550	1	PIC, BSi, POP, POC					
	350	51	pTh, PIC, BSi, POP, POC, genomics					
	350	1	pTh, PIC, BSi, POP, POC, genomics					
	200	1	PIC, BSi, POP, POC					
	150	51	pTh, PIC, BSi, POP, POC, genomics					
	150	1	pTh, PIC, BSi, POP, POC, genomics					
	120	51	PIC, BSi, POP, POC					
	120	1	PIC, BSi, POP, POC					
	105	51	pTh, PIC, BSi, POP, POC, genomics					

	105	1	pTh, PIC, BSi, POP, POC, genomics					
	60	51	pTh, PIC, BSi, POP, POC, genomics					
	60	1	pTh, PIC, BSi, POP, POC, genomics					
	20	51	pTh, PIC, BSi, POP, POC, genomics					
	20	1	pTh, PIC, BSi, POP, POC, genomics					
Station/Date	Depth [m]	Pore-size [µm]	Station/Date					
Station 16	700	51	pTh, PIC, BSi, POP, POC, genomics					
21.01.2024	700	1	pTh, PIC, BSi, POP, POC, genomics					
	500	1	PIC, BSi, POP, POC					
	300	51	pTh, PIC, BSi, POP, POC, genomics					
	300	1	pTh, PIC, BSi, POP, POC, genomics					
	200	1	PIC, BSi, POP, POC					
	150	51	pTh, PIC, BSi, POP, POC, genomics					
	150	1	pTh, PIC, BSi, POP, POC, genomics					
	120	51	PIC, BSi, POP, POC					
	120	1	PIC, BSi, POP, POC					
	90	51	pTh, PIC, BSi, POP, POC, genomics					
	90	1	pTh, PIC, BSi, POP, POC, genomics					
	60	51	pTh, PIC, BSi, POP, POC, genomics					
	60	1	pTh, PIC, BSi, POP, POC, genomics					
	20	51	pTh, PIC, BSi, POP, POC, genomics					
	20	1	pTh, PIC, BSi, POP, POC, genomics					
Station/Date	Depth [m]	Pore-size [µm]	Station/Date					
Station 17	1000	1	POP, POC, AAS AA, Nd and Sr Isotopes					
22.01.2024	700	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	700	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	500	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	500	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	300	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	300	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	200	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	200	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	95	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	95	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	20	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	20	1	POP, POC, AAS AA, Nd and Sr Isotopes					
Station/Date	Depth [m]	Pore-size [µm]	Station/Date					
Station 18	700	51	pTh, PIC, BSi, POP, POC, genomics					
23.01.2024	700	1	pTh, PIC, BSi, POP, POC, genomics					
	500	1	PIC, BSi, POP, POC					
	300	51	pTh, PIC, BSi, POP, POC, genomics					
	300	1	pTh, PIC, BSi, POP, POC, genomics					
	200	1	PIC, BSi, POP, POC					
	150	51	PIC, BSi, POP, POC					
	150	1	PIC, BSi, POP, POC					
	120	51	pTh, PIC, BSi, POP, POC, genomics					

	120	1	pTh, PIC, BSi, POP, POC, genomics					
	95	51	pTh, PIC, BSi, POP, POC, genomics					
	95	1	pTh, PIC, BSi, POP, POC, genomics					
	95 60	51	pTh, PIC, BSi, POP, POC, genomics					
	60	1	pTh, PIC, BSi, POP, POC, genomics					
	20	51	pTh, PIC, BSi, POP, POC, genomics					
		1						
Station/Date	20 Denth [m]	Pore-size [µm]	pTh, PIC, BSi, POP, POC, genomics Station/Date					
Station/Date	Depth [m] 1000	1	POP, POC, AAS AA, Nd and Sr Isotopes					
24.01.2024	700	51	POP, POC, AAS AA, Nd and St Isolopes POP, POC, AAS AA, Nd and St Isolopes					
24.01.2024		-						
	700	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	500	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	500	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	300	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	300	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	180	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	180	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	150	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	105	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	105	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	55	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	55	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	20	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	20	1	DOD DOC AAS AA Nid and St lastance					
		•	POP, POC, AAS AA, Nd and Sr Isotopes					
Station/Date	Depth [m]	Pore-size [µm]	Station/Date					
Station 20	<b>Depth [m]</b> 700	•	Station/Date pTh, PIC, BSi, POP, POC, genomics					
	Depth [m]	Pore-size [µm]	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20	<b>Depth [m]</b> 700	<b>Pore-size [μm]</b> 51	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC					
Station 20	<b>Depth [m]</b> 700 700	Pore-size [µm] 51 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomics					
Station 20	<b>Depth [m]</b> 700 700 570	<b>Pore-size [μm]</b> 51 1 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20	<b>Depth [m]</b> 700 700 570 300	Pore-size [μm] 51 1 1 51 51	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC					
Station 20	Depth [m] 700 700 570 300 300	Pore-size [μm] 51 1 1 51 1 51 1 1 51 1 51 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomics					
Station 20	Depth [m] 700 570 300 300 200	Pore-size [μm] 51 1 1 51 51 1 1 51 1 1 1 1 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20	Depth [m] 700 570 300 300 200 150	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 51 51 51	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC					
Station 20	Depth [m] 700 570 300 300 200 150 150	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 1 1 1 51 1 1 51 1 1 51 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20	Depth [m] 700 570 300 200 150 150 120	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 51	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomics					
Station 20	Depth [m] 700 570 300 200 150 150 120 120	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 1 51 1 51 1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20	Depth [m] 700 570 300 300 200 150 150 120 120 90	Pore-size [μm] 51 1 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 1 51 5	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20	Depth [m] 700 570 300 300 200 150 150 120 120 120 90 90	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20	Depth [m] 700 570 300 200 150 150 120 120 90 90 60	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20	Depth [m] 700 570 300 200 150 150 120 120 90 90 60 60	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20	Depth [m] 700 700 570 300 200 150 150 120 120 120 90 90 60 60 60 20	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20 25.01.2024	Depth [m] 700 700 570 300 200 150 150 150 120 120 90 90 90 60 60 60 20 20	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20 25.01.2024	Depth [m] 700 570 300 300 200 150 150 150 120 120 90 90 90 60 60 60 20 20 20 Depth [m]	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         Pore-size [μm]	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					
Station 20 25.01.2024	Depth [m] 700 700 570 300 200 150 150 150 120 90 90 90 60 60 60 20 20 Depth [m] 1000	Pore-size [μm]         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         51         1         Pore-size [μm]         1	Station/DatepTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCpTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicsPIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomicsPIC, BSi, POP, POCPIC, BSi, POP, POCPIC, BSi, POP, POC, genomicspTh, PIC, BSi, POP, POC, genomics					

	500	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	250	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	250	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	200	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	200	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	165	1	POP, POC, AAS AA, Nd and St isotopes					
	95	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	95	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	60	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	60	1	POP, POC, AAS AA, Nd and Sr Isotopes					
	20	51	POP, POC, AAS AA, Nd and Sr Isotopes					
	20	1	POP, POC, AAS AA, Nd and Sr Isotopes					
Station/Date	Depth [m]	Pore-size [µm]	Station/Date					
Station 22	700	51	pTh, PIC, BSi, POP, POC, genomics					
27.01.2024	700	1	pTh, PIC, BSi, POP, POC, genomics					
	500	1	PIC, BSi, POP, POC					
	300	51	pTh, PIC, BSi, POP, POC, genomics					
	300	1	pTh, PIC, BSi, POP, POC, genomics					
	200	1	PIC, BSi, POP, POC					
	150	1	pTh, PIC, BSi, POP, POC, genomics					
	120	51	PIC, BSi, POP, POC					
	120	1	PIC, BSi, POP, POC					
	90	51	pTh, PIC, BSi, POP, POC, genomics					
	90	1	pTh, PIC, BSi, POP, POC, genomics					
	60	51	pTh, PIC, BSi, POP, POC, genomics					
	60	1	pTh, PIC, BSi, POP, POC, genomics					
-	20	51	pTh, PIC, BSi, POP, POC, genomics					
	20	1	pTh, PIC, BSi, POP, POC, genomics					
			Station/Data					
Station/Date	Depth [m]	Pore-size [µm]	Station/Date					
Station/Date	<b>Depth [m]</b> 700	<b>Pore-size [µm]</b> 51	pTh, PIC, BSi, POP, POC, genomics					
Station 24	700	51	pTh, PIC, BSi, POP, POC, genomics					
Station 24	700 700	51 1	pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics					
Station 24	700 700 500	51 1 1	pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC					
Station 24	700 700 500 300	51 1 1 51 51	pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC pTh, PIC, BSi, POP, POC, genomics					
Station 24	700 700 500 300 300	51 1 1 51 1 1	pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics					
Station 24	700           700           500           300           300           200	51 1 1 51 1 1 1	pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC					
Station 24	700           700           500           300           300           200           150	51 1 1 51 1 1 51 51	pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC pTh, PIC, BSi, POP, POC, genomics					
Station 24	700           700           500           300           300           200           150	51 1 1 51 1 1 1 51 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 51 1 51 1 51 1 51 1 51 1 51 5	<ul> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> </ul>					
Station 24	700       700       500       300       300       200       150       120	51       1       51       1       51       1       51       1       51       1       51       1       51	pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC pTh, PIC, BSi, POP, POC, genomics pTh, PIC, BSi, POP, POC, genomics PIC, BSi, POP, POC					
Station 24	700       700       500       300       300       200       150       120       120	51 1 1 51 1 1 51 1 51 1 51 1 51 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 1 51 1 51 1 51 5	<ul> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> </ul>					
Station 24	700       700       500       300       300       200       150       120       120       105	51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       51	<ul> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pIC, BSi, POP, POC</li> <li>PIC, BSi, POP, POC</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> </ul>					
Station 24	700       700       500       300       300       200       150       120       120       105	51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1	<ul> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>PIC, BSi, POP, POC</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> </ul>					
Station 24	700         700         500         300         300         200         150         120         120         105         60	51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51	<ul> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>PIC, BSi, POP, POC</li> <li>PIC, BSi, POP, POC</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> </ul>					
Station 24	700         700         500         300         300         200         150         120         120         105         60         60	51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       51       1       1       51       1	<ul> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> <li>PIC, BSi, POP, POC</li> <li>PIC, BSi, POP, POC</li> <li>PIC, BSi, POP, POC</li> <li>pTh, PIC, BSi, POP, POC, genomics</li> </ul>					

Station 25	1000	1	POP, POC, AAS AA, Nd and Sr Isotopes				
30.01.2024	700	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	700	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	500	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	500	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	400	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	400	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	200	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	200	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	150	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	105	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	105	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	60	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	60	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	20	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	20	1	POP, POC, AAS AA, Nd and Sr Isotopes				
Station/Date	Depth [m]	Pore-size [µm]	Station/Date				
Station 26	700	51	pTh, PIC, BSi, POP, POC, genomics				
31.01.2024	700	1	pTh, PIC, BSi, POP, POC, genomics				
	500	1	PIC, BSi, POP, POC				
	300	51	pTh, PIC, BSi, POP, POC, genomics				
	300	1	pTh, PIC, BSi, POP, POC, genomics				
	200	1	PIC, BSi, POP, POC				
	150	51	pTh, PIC, BSi, POP, POC, genomics				
	150	1	pTh, PIC, BSi, POP, POC, genomics				
	120	51	PIC, BSi, POP, POC				
	120	1	PIC, BSi, POP, POC				
	105	51	pTh, PIC, BSi, POP, POC, genomics				
	105	1	pTh, PIC, BSi, POP, POC, genomics				
	60	51	pTh, PIC, BSi, POP, POC, genomics				
	60	1	pTh, PIC, BSi, POP, POC, genomics				
	20	51	pTh, PIC, BSi, POP, POC, genomics				
	20	1	pTh, PIC, BSi, POP, POC, genomics				
Station/Date	Depth [m]	Pore-size [µm]	Station/Date				
Station 27	1000	1	POP, POC, AAS AA, Nd and Sr Isotopes				
01.02.2024	700	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	700	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	500	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	500	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	400	51	POP, POC, AAS AA, Nd and Sr Isotopes				
	400						
	400	1	POP, POC, AAS AA, Nd and Sr Isotopes				
		1	POP, POC, AAS AA, Nd and Sr Isotopes POP, POC, AAS AA, Nd and Sr Isotopes				
	400						
	400 150	1	POP, POC, AAS AA, Nd and Sr Isotopes				
	400 150 105	1 51	POP, POC, AAS AA, Nd and Sr Isotopes POP, POC, AAS AA, Nd and Sr Isotopes				

	20	51	POP, POC, AAS AA, Nd and Sr Isotopes						
	20	1	POP, POC, AAS AA, Nd and Sr Isotopes						
Station/Date	Depth [m]	Pore-size [µm]	Station/Date						
Station 28	700	51	pTh, PIC, BSi, POP, POC, genomics						
02.02.2024	700	1	pTh, PIC, BSi, POP, POC, genomics						
	500	1	PIC, BSi, POP, POC						
	300	51	pTh, PIC, BSi, POP, POC, genomics						
	300	1	pTh, PIC, BSi, POP, POC, genomics						
	200	1	PIC, BSi, POP, POC						
	150	51	pTh, PIC, BSi, POP, POC, genomics						
	150	1	pTh, PIC, BSi, POP, POC, genomics						
	120	51	PIC, BSi, POP, POC						
	120	1	PIC, BSi, POP, POC						
	100	51	pTh, PIC, BSi, POP, POC, genomics						
	100	1	pTh, PIC, BSi, POP, POC, genomics						
	60	51	pTh, PIC, BSi, POP, POC, genomics						
	60	1	pTh, PIC, BSi, POP, POC, genomics						
	20	51	pTh, PIC, BSi, POP, POC, genomics						
	20	1	pTh, PIC, BSi, POP, POC, genomics						
Station/Date	Depth [m]	Pore-size [µm]	Station/Date						
Station 29	1000	1	POP, POC, AAS AA, Nd and Sr Isotopes						
03.02.2024	700	51	POP, POC, AAS AA, Nd and Sr Isotopes						
	700	1	POP, POC, AAS AA, Nd and Sr Isotopes						
	500	51	POP, POC, AAS AA, Nd and Sr Isotopes						
	500	1	POP, POC, AAS AA, Nd and Sr Isotopes						
	400	51	POP, POC, AAS AA, Nd and Sr Isotopes						
	400	1	POP, POC, AAS AA, Nd and Sr Isotopes						
	200	51	POP, POC, AAS AA, Nd and Sr Isotopes						
	200	1	POP, POC, AAS AA, Nd and Sr Isotopes						
	150	1	POP, POC, AAS AA, Nd and Sr Isotopes						
	105	51	POP, POC, AAS AA, Nd and Sr Isotopes						
	105	1	POP, POC, AAS AA, Nd and Sr Isotopes						
	60	51	POP, POC, AAS AA, Nd and Sr Isotopes						
	60	1	POP, POC, AAS AA, Nd and Sr Isotopes						
	20	51	POP, POC, AAS AA, Nd and Sr Isotopes						
-	20	1	POP, POC, AAS AA, Nd and Sr Isotopes						

Station	Date	Samples
1	2024.1.7	DOM-POM
2	2024.1.8	DOM-POM
3	2024.1.9	DOM-POM
4	2024.1.10	DOM-POM
5	2024.1.11	DOM-POM
6	2024.1.12	DOM-POM
7	2024.1.13	DOM-POM
8	2024.1.14	DOM-POM
9	2024.1.15	DOM-POM
10	2024.1.16	DOM-POM
11	2024.1.17	DOM-POM
12	2024.1.18	DOM-POM
13	2024.1.19	DOM-POM
15	2024.1.20	DOM-POM
16	2024.1.21	DOM-POM
17	2024.1.22	DOM-POM
18	2024.1.23	DOM-POM
19	2024.1.24	DOM-POM
20	2024.1.25	DOM-POM
21	2024.1.26	DOM-POM
22	2024.1.27	DOM-POM
24	2024.1.29	DOM-POM
25	2024.1.30	DOM-POM
26	2024.1.31	DOM-POM
28	2024.2.2	DOM-POM

# 12.10 Station Information for DOM-POM Samples.

Station	Date	Samples
1	2024.1.7	APA/POP
2	2024.1.8	APA/POP
3	2024.1.9	APA/POP
4	2024.1.10	APA/POP
5	2024.1.11	APA/POP
6	2024.1.12	APA/POP
7	2024.1.13	APA/POP
8	2024.1.14	APA/POP
9	2024.1.15	APA/POP
10	2024.1.16	APA/POP
11	2024.1.17	APA/POP
12	2024.1.18	APA/POP
13	2024.1.19	APA/POP
15	2024.1.20	APA/POP
17	2024.1.22	APA/POP
18	2024.1.23	APA/POP
19	2024.1.24	APA/POP
20	2024.1.25	APA/POP
21	2024.1.26	APA/POP
22	2024.1.27	APA/POP
23	2024.1.28	APA/POP
24	2024.1.29	APA/POP
25	2024.1.30	APA/POP
26	2024.1.31	APA/POP
27	2024.2.1	APA/POP
28	2024.2.2	APA/POP
29	2024.2.3	APA/POP
30	2024.2.4	APA/POP

# 12.11 Station Information of APA and POP Samples.

Experimen	Statio	Time	Samplin	Flow	Chlorophyll	DNA	APA
t	n	(UTC time)	g time	cytometr y (mL)	(mL)	(mL)	(mL)
1	2	2024.1.8 17:30	D0-D2	2	500	1000	10
2	9	2024.1.1 5 16:30	D0-D2- D5	2	500	1500	10
3	16	2024.1.2 1 18:00	D0-D2- D5	2	500	1500	10
4	24	2024.1.2 9 18:00	D0-D2- D5	2	500	1500	10

# 12.12 Information of DOP Incubation Experiment Setup.

DATE	STATION NO.	Lat NORTH	Long EAST	LabStaf protocols CONTINUOUS	DEPTH PROF
7/1/2024	1	33.21647	32.2525236	X	YES
8/1/2024	2	33.30579	32.17428	YES	YES
9/1/2024	3	34.08175	32.22162	YES	YES
10/1/2024	4	33.45916	32.12248	YES	YES
11/1/2024	5	33.20.833	33.23263	YES	YES
12/1/2024	6	34.03927	34.09154	YES	YES
13/1/24	7	33.41062	32.3223	YES	YES
14/01/24	8	34.0445	32.41014	YES	YES
15/01/24	9	33.48057	30.17751	YES	YES
16/01/24	10	33.46776	27.34231	YES	YES
17/01/24	11	34.0057	26.31151	YES	YES
18/01/24	12	34.22065	26.05635	YES	YES
19/01/24	13	34.15486	25.29689	YES	YES
20/01/24	14	33.43423	24.40816	YES	YES
20/01/24	15	33.43423	24.40816	YES	YES
21/01/24	16	33.72614	24.68495	YES	YES
22/01/24	17	34.23086	24.52052	YES	YES
23/01/24	18	34.35639	23.56499	yes *	YES
23/01/24	18	34.35639	23.56499		
24/01/24	19	34.31288	23.35953	YES	YES
25/01/24	20	34.4798	22.52219	YES*	YES
26/01/24	21	35.1105	22.47349	YES	YES
27/01/24	22	35.5524	22.62974	YES	YES
28/01/24	23	35.26648	22.00857	YES	YES
29/01/24	24	35.19752	21.40616	YES	YES
30/01/24	25	35.55593	21.26734	YES	YES
31/01/24	26	36.337	21.337	YES	YES
1/2/2024	27	36.37691	20.16078	YES	YES
2/2/2024	28	37.1667	20.11844	YES	YES
3/2/2024	29	37.32697	19.23637	YES	YES
4/2/2024	30	37.29819	18.43736	yes	yes
5/2/2024	done			,	,

## 12.13 Summary of Measurements/Protocols Taken for the LabStaf Instrument

#### 12.14 Concentration of Added ¹⁵N Tracer and Assumed Ambient N Concentration.

In this table the actual measured concentration is shown together with the final percentage of ¹⁵N tracer from the total amount of each N species in the original sample. Note that in all cases except Stations 15, 24 nitrate, which marked in red, the tracer was less than 20% of the ambient.

Date	Station	Compound	Ambient Concentration (nM)	Assumed ambient concentration (nM)	The concentration of the added ¹⁵ N (nM)	N enrichment at to – atm(%)
8.1.2024	2	$\mathrm{NH4}^+$		20	2	
8.1.2024	2	NO ₃ -	9	10	1	11.1
8.1.2024	2	Urea		100	10	
10.1.2024	4	NH4 ⁺		20	2	
10.1.2024	4	NO ₃ -	48	30	3	6.25
10.1.2024	4	Urea		100	10	
12.1.2024	6	$\mathrm{NH_{4}^{+}}$		20	2	
12.1.2024	6	NO ₃ -	46	40	4	8.7
12.1.2024	6	Urea		100	10	
15.1.2024	9	$\mathrm{NH_{4}^{+}}$		20	2	
15.1.2024	9	NO3 ⁻	26	50	5	19.23
15.1.2024	9	Urea		150	15	
21.1.2024	15	NH4 ⁺		30	3	
21.1.2024	15	NO ₃ -	18	60	6	33.3
21.1.2024	15	Urea		150	15	
24.1.2024	19	NH4 ⁺		50	5	
24.1.2024	19	NO3 ⁻	173	100	10	5.8
24.1.2024	19	Urea		200	20	
29.1.2024	24	NH4 ⁺		50	5	
29.1.2024	24	NO3 ⁻	20	200	20	100
29.1.2024	24	Urea		200	20	

date	Stat ion	NH4 addition (nM)	Urea additio n	NO3 additio n	PO4 addition (nM)	DOP additio n	treat ment	Time (days)	FCM (ml)	Chl >0.7μ( ml)	Chl >3µm (ml)	DNA (ml)	Frrf (ml)	APA (ml)
08/01/ 2024	2	0			0		Initial	0	2	, 500	500	3000	15	15
08/01/		0			0		Contr					5000		
2024 08/01/	2							2	2	500	500		15	15
2024 08/01/	2	2000			0		NH4	2	2	500	500		15	15
2024 08/01/	2	0			200		PO4 NH4+	2	2	500	500		15	15
2024 08/01/	2	2000			200		PO4	2	2	500	500		15	15
2024 08/01/	2					200	DOP NH4+	2	2	500		1500		15
2024 08/01/	2	2000				200	DOP	2	2	500		1500		15
2024	2	0			0		Contr ol	5	2	500	500	3000	15	15
08/01/ 2024	2	2000			0		NH4	5	2	500	500	3000	15	15
08/01/ 2024	2	0			200		PO4	5	2	500	500	3000	15	15
08/01/ 2024	2	2000			200		NH4+ PO4	5	2	500	500	3000	15	15
15/01/ 2024	9	0			0		Initial	0	2	500	500	3000	15	15
15/01/ 2024	9	0			0		Contr ol	2	2	500	500		15	15
15/01/ 2024	9	2000			0		NH4	2	2	500	500		15	15
15/01/														
2024 15/01/	9	0			200		PO4 NH4+	2	2	500	500		15	15
2024 15/01/	9	2000			200		PO4 NH4+	2	2	500	500			15
2024 15/01/	9	2000				200	DOP	2	2	500		1500	15	15
2024	9					200	DOP Contr	2	2	500		1500		15
2024	9	0			0		ol	5	2	500	1000	3000	15	15
15/01/ 2024	9	2000			0		NH4	5	2	500	1000	3000	15	15
15/01/ 2024	9	0			200		PO4	5	2	500	1000	3000	15	15
15/01/ 2024	9	2000			200		NH4+ PO4	5	2	500	1000	3000	15	15
15/01/ 2024	9					200	DOP	5	2	500		1500		15
15/01/ 2024	9	2000				200	NH4+ DOP	5	2	500		1500	15	15
21/01/ 2024	17	0			0	200	Initial	0	2	500	500	2000	15	15
21/01/							Contr					2000		
2024 21/01/	17	0			0		ol	2	2	500	500		15	15
2024 21/01/	17	2000			0		NH4	2	2	500	500		15	15
2024 21/01/	17	0			200		PO4 NH4+	2	2	500	500		15	15
2024 21/01/	17	2000			200		PO4	2	2	500	500		15	15
2024 21/01/	17					200	DOP NH4+	2	2	500		1500	15	15
2024	17	2000				200	DOP	2	2	500		1500	15	15
21/01/ 2024	17		2000		200		Urea+ PO4	2	2	500	500		15	15
21/01/ 2024	17			2000	200		NO3+ PO4	2	2	500	500		15	15
21/01/ 2024	17	0			0		Contr ol	5	2	500	500	2000	15	15
21/01/ 2024	17	2000			0		NH4	5	2	500	500	2000	15	15
2024 21/01/ 2024	17	0			200		PO4	5	2	500	500	2000	15	15
21/01/							NH4+							
2024 21/01/	17	2000			200		PO4	5	2	500	500	2000	15	15
2024 21/01/	17					200	DOP NH4+	5	2	500		1500	15	15
2024	17	2000				200	DOP	5	2	500		1500	15	15

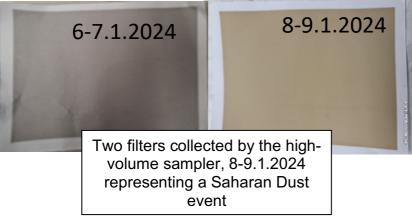
#### 12.15 N and P Compounds and the Actual Concentrations Added in Each Bottle.

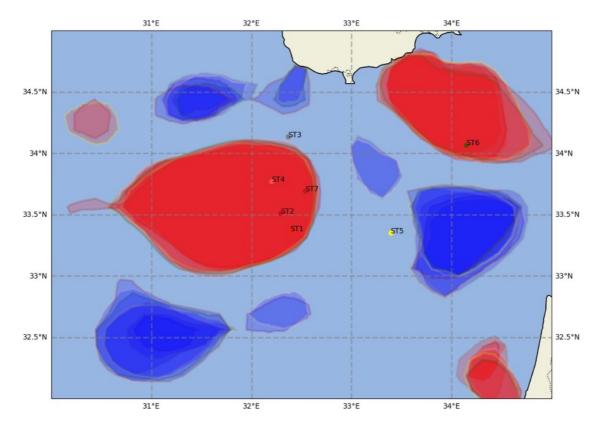
21/01/	. I	1	I	I			Urea+	i i		I		1	I I	L I
2024	17		2000		200		PO4	5	2	500	500	2000	15	15
21/01/							NO3+							
2024	17			2000	200		PO4	5	2	500	500	2000	15	15
29/01/														
2024	24	0			0		Initial	0	2	500	500	2000	15	15
29/01/							Contr			500			45	45
2024 29/01/	24	0			0		ol	2	2	500	500		15	15
2024	24	2000			0		NH4	2	2	500	500		15	15
29/01/		2000							-	500	500		10	10
2024	24	0			200		PO4	2	2	500	500		15	15
29/01/							NH4+							
2024	24	2000			200		PO4	2	2	500	500		15	15
29/01/														
2024	24					200	DOP	2	2	500		1500	15	15
29/01/ 2024	24	2000				200	NH4+ DOP	2	2	500		1500	15	15
2024	24	2000				200	Urea+	2	2	500		1500	15	15
2024	24		2000		200		PO4	2	2	500	500		15	15
29/01/			2000		200		NO3+		-	500	500		10	10
2024	24			2000	200		PO4	2	2	500	500		15	15
29/01/							Contr							
2024	24	0			0		ol	5	2	500	500	2000	15	15
29/01/														
2024	24	2000			0		NH4	5	2	500	500	2000	15	15
29/01/ 2024	24	0			200		PO4	5	2	500	500	2000	15	15
29/01/	24	0			200		NH4+	5	2	500	500	2000	15	15
2024	24	2000			200		PO4	5	2	500	500	2000	15	15
29/01/									_					
2024	24					200	DOP	5	2	500		1500	15	15
29/01/							NH4+							
2024	24	2000				200	DOP	5	2	500		1500	15	15
29/01/							Urea+							
2024	24		2000		200		PO4	5	2	500	500	2000	15	15
29/01/	24			2000	200		NO3+	-	2	500	500	2000	15	15
2024	24			2000	200		PO4	5	2	500	500	2000	12	15

#### 12.16 Aerosol Sampling









# 12.17 Mesoscale Eddy Detection

Fig.1. Example of eddies detected during the period of the 7-13th of January, 2024

12.18 Multicore Station Report					
Meteor ID	Lat	Long	Water depth		
M197-01	33°21.952′ N	32°23.149′E	1952m		
Geographic	South of the Eratosthenes Seamount, in between the southern slope				
location	of the ESM and the edge of salt wedge				

Sedimentary succession (photograph)	Descr	iption		
		nt type:		
all strange		siliciclastics		
	Colour	Light brown, brown		
		to dark gray		
Seafloor state (photograph)	Visual De	escription:		
	Top 1cm layer of	pteropods, 1-19 cm		
		whish fine grain sediment, 19-24 cm ent from brown to dark reddish brown,		
		fine grained sediment		
		bel S1?)		
and the second		nts between depth 26-		
		propel layer		
a detail of the second second				
the second se				
and the second				
	Recovery	32cm		
	Components	Pteropods		
-	g foraminifera, micropa	lleontology, MAD,		
microplasticS, eDNA				

#### 12.18 Multi Station Panart

Multicore station report						
Meteor ID	Lat	Long	Water depth			
M197_02	33° 30.6′ N	32° 17.4′ E	2068m			
Geographic	NW of station 1. South of the Eratosthenes Seamount					
location						

Sedimentary succession (photograph)	Descr	iption	
	Sedime	nt type:	
	Fine grained		
	Colour	Light brown, brown	
		to dark grey	
Seafloor state (photograph)	Visual De	scription:	
	Top 1cm layer of pte	ropods, 1-24cm light	
a second second second	brown fine grained sediments, 24-28cm dark brown; grey-brown mottles, 28-34cm		
		wn mottles, 28-34cm ned sediments with	
the second second second		ells at upper intervals	
		ents in sapropel layer	
IN CONTRACTOR OF THE OWNER			

P	States of the second		34cm	
1.1.1.1.1.1	CALL DE LA	Components	Pteropods in top 1cm	
			surface layer	
Sample	Pore waters, CT, living			
	microplasticS, eDNA, incubation system, Pteropods (PT)			

Multicore station report						
Meteor ID	Lat	Long	Water depth			
M197-03	34° 8.174′N	32°22.164′E	2510m			
Geographic	Small depression at the foot of the Southern Cypriot slope					
location						

Sedimentary succession (photograph)	Descr	iption		
	Sedime	nt type:		
	Fine grained siliciclastics			
	Colour	Light brown, brown		
	to dark gray			
Seafloor state (photograph)	Visual De	scription:		
	Watery fine grained su 0-10cm light brown fin 10-11 cm yellowish-lig sediment; 11-30cm light brown fin 30-52 cm dark grey fin (sapropel S1?)	urface layer. ne grained sediments ght brown silty ine grained sediment ne grained sediments		
	Recovery	52cm		
CT lining for 1 1	Components	none		
Sample CT, living foraminifered eDNA	ra, micropaleontology, N	MAD, microplastics,		

Multicore static

Multicore station report						
Meteor ID	Lat	Long	Water depth			
M197-07	33° 41.079′ N	32° 32.254′ E	932m			
Geographic	Top of Eratosthenes Seamount					
location	-					

Sedimentary succession (photograph)	Descr	iption	
		nt type:	
	Fine grained siliciclastics		
	Colour	Yellowish light	
		brown, brown to	
		dark grey	
Seafloor state (photograph)	Visual De	escription:	
	0.5cm pteropod surface layer 0.5-22 cm fine grained yellowish ligh brown 22-29cm dark brown 29-35cm dark grey sapropel with milk white pteropods		
	<b>Recovery</b>	36cm	
<b>Sample</b> Pore waters, CT, livin	<b>Components</b> g foraminifera, micropa	pteropods leontology, MAD.	
microplastics, eDNA,			

Multicore station report						
Meteor ID	Lat	Long	Water depth			
M197-08	34° 04.450′ N	32° 41.015′ E	2557m			
Geographic	North of Eratosthenes	North of Eratosthenes Seamount				
location						

Sedimentary succession	n (photograph)	Descr	iption	
		Sedime		
		Fine Grained siliciclastics		
		Colour	Light brown to dark	
			brown, alternating	
			layers	
Seafloor state (ph	otogranh)	Visual De	scription:	
		Top surface had very few to no pteropods.		
		No sapropel layer at bottom.		
		0-1cm: light brown		
		1-2cm: brown		
		2-4cm: mix of light br		
		(Mottled) and Bioturba		
		4-8cm: brown with spe	ecks of light brown	
		8-9cm: light brown		
		9-14cm: brown		
		14-18cm: lightish brov 18-32cm: brown	VII	
		32-45cm: light brown		
		45-53cm: very dark br	own	
			-	
		Recovery	53m	
		Components	Very few pteropods	
_		g foraminifera, micropa	leontology, MAD,	
mic	croplastics, eDNA,	Pteropods		

Multicore station report			
Meteor ID	Lat	Long	Water depth
M197-09	33° 48.050′ N	30° 17.734′ E	2845m
Geographic	Eratosthenes Seamount and Greece working area. Far away from		
location	land.	_	-

Sedimentary succession (photograph)	Description	
	Sediment type:	
	Fine grained siliciclastics	
	Colour	Yellowish light
		brown, brown to
		dark grey
Seafloor state (photograph)	Visual Description:	
	Top 1cm of brownish-black pteropods and mixed with transparent ones 1-24cm: yellowish light brown, homogenous 24-29cm: mottled, brown uneven layer mixed with dark grey 29-42cm: sapropel layer, grey	
	Recovery	40cm (Different core
		recoverv
	Components	recovery) pteropods

Meteor ID	Multicore st	Long	Water depth
M197_11	34.00835	26.5198	3172
Geographic location	South of Strabo trench	l.	

Sedimentary success	sion (photograph)	Description	
		Sediment type:	
R III		Fine grained siliciclastics	
R R		Colour	Light brown to
			brown
Seafloor state (	nhotogranh)	Visual De	scription
		0-1cm: very 1-3cm: lig 3-37cm Some cores penetrato (core used for Porew	light brown ght brown : brown ed the sapropel layer
		Recovery	37cm
		Components	Pteropods
	Pore waters, CT, living microplastics, eDNA,	g foraminifera, micropa pteropods (PT)	leontology, MAD,

# Multicore station report

	Multicore s	tation report	
Meteor ID	Lat	Long	Water depth
M197_12	34.36776	26.0942	4308
Geographic	In Pliny trench south of Crete.		
location			

Sedimentary succession (photograph)	Description	
	Sediment type:	
	Fine to coarse grained siliciclastics	
	Colour	Brown to light
		brown
8 ° 10 11 12 13 14 15 16 17 18 19 20 21 21 21 21 21 21 21 21 21 21 21 21 21		
Seafloor state (photograph)	Visual Description:	
	0-3cm: brownish sediments (sandy silty) 3-6cm: dark brown 6-13cm: light brownish (6-7cm grain size increases 7-8cm:sandy layer 8-9cm:mix of sandy and clayey 9-10cm: clayey) 13-18cm: greyish (sandy layer) 18-25cm: light brown	
	Recovery	25cm
	<b>Components</b>	Pteropods
<b>Sample</b> Pore waters, CT, livin	g foraminifera, micropa	leontology, MAD,

Meteor ID	Lat	Long	Water depth
M197_13	34.258	25.49485	3938
Geographic	In Pliny trench south of Crete.		
location			

Sedimentary succession (photograph) Description		iption
( <b>F</b> )	Sediment type:	
	Fine grained siliciclastics	
	Colour	Brown to light
		brown and grey
Seafloor state (photograph)	Visual De	scription:
	0-3cm: brown sediments 3-5cm: light brown 5.5cm: black ring layer (0.3mm)	
	5-8cm: brown 8-14cm: light brown 14-17cm: brown and grey mottled 17-21cm: reddish brown 21-27cm: light brown 27-32cm: grey 32-35cm: purple-ish grey brown 35-40cm: brown	
	35-40cm Recovery	ı: brown 40cm
Sample Pore waters, CT, living	35-40cm Recovery Components	n: brown 40cm None

Meteor ID	Lat	Long	Water depth
M197_14	33.725986	24.685115	1936m
Geographic	Brine pool on top of N	Japoli mud volcano	
location			

Sedimentary succession (photograph)	Description	
	Sedime	
	Colour	Light brown to brown
Seafloor state (photograph)	Visual Description:	
	0-1cm: black flu 1-4.5cm: black 4.5-14cm: grey-blac 14-17cm: w 17-20cm: 20-23cm: w 23-26cm: 26-28cm: 28-30cm	grey sediments k mottled sediments /hitish grey light grey /hitish grey light grey dark grey
	Recovery	30cm
Market and the second	Components	None
	g foraminifera, micropa Metagenomics, Mercur	

Meteor ID	Lat	Long	Water depth
M197_15	33.723783	24.680929	1942
Geographic	On top of Napoli mud	volcano.	
location			

Sedimentary succession (photograph)	Description	
	Sediment type:	
		e grained
	Colour	Brown to grey to
		dark grey
Seafloor state (photograph)	Visual Description:	
	0-0.5cm: dark brown 0.5-1cm: light brown 1-2cm: brown grey 2-7cm: grey 7-25cm: light grey 25-40cm: dark grey 40-45cm: light grey	
	Recovery	45cm
Comple Dere watere OT linin	<b>Components</b>	None
SamplePore waters, CT, living foraminifera, micropaleontology, MAD, microplastics, eDNA, Metagenomics, Mercury (Angele)		

Meteor ID	Lat	Long	Water depth
M197_18	34.5940166	23.9416833	3189m
Geographic	In a subduction zone likely influenced by export from Crete		
location			

Sedimentary succession (photograph)	Description		
	Sedime		
	Fine grained	siliciclastics	
	Colour	Light brown to grey	
Seafloor state (photograph)	Visual Description:		
	Pteropods a 0-14cm: li 14-17cm: ł	ght brown	
	17-19cm: c	lark brown prown grey of dark brown ne grained (likely top	
	17-19cm: c 19-21cm: b 21-23cm: ring 23-29cm: grey very fi of sap <b>Recovery</b>	lark brown prown grey of dark brown ne grained (likely top ropel) 29cm	
Sample Pore waters, CT, livin	17-19cm: c 19-21cm: t 21-23cm: ring 23-29cm: grey very fi of sap	lark brown prown grey of dark brown ne grained (likely top ropel) 29cm pteropods	

Meteor ID	Lat	Long	Water depth
M197_19	34.800016	22.870033	2695m
Geographic	South of trench. In longer-term cyclonic eddy		
location			

Sedimentary succession	ı (photograph)	Descri	ption
			nt type:
		Fine grained	siliciclastics
		Colour	Light brown to
			grey black
Seafloor state (pho	otograph)	Visual De	scription:
Seafloor state (photograph)		Surface of 0-0.5cm: p 0.5-19cm: 1 19-26cm: mottlec brown in light b 26-34cm: dark grey	pteropods oteropods ight brown l; streaks of dark rown sediments
		Recovery	33
	AND NO.	Components	Pteropods
	Pore waters, CT, livir MAD, microplastics,	ng foraminifera, micro eDNA, Pteropods	opaleontology,

Meteor ID	Lat	Long	Water depth
M197_20	34.800016	22.87003	2928m
Geographic	South of the trench. Outer part of the longer-term cyclonic eddy		
location			

Sedimentary succession (photograph)	Description	
	Sedime	nt type:
	Fine grained	d siliclastics
	Colour	Light brown, brown
		to grey
Seafloor state (photograph)	Visual De	scription:
	Few pteropods on surface	
	0-4cm: brown	
	Pteropods at 6cm	
		ght brown lark brown
C. R. W. S. State of the Contraction		grey black
	20-29-11. 29-33ci	
	2, 3,50	in groy
and the part of the part of the		
	Recovery	32
	Components	Pteropods
	g foraminifera, micropa	*
microplastics, eDNA,	Pteropods	

Meteor ID	Lat	Long	Water depth
M197_22	35.55285	22.6302	4591m
Geographic	In Hellenic trench inside a small canyon. Influenced by Aegean		
location	water outflow		

Sedimentary succession (photograph)	Description	
	Sedime	
	Fine grained	siliciclastics
	Colour	Brown to grey
Seafloor state (photograph)	Visual De	scription:
	0-15cm: red 15-26cm: 1 26-32cr	ight brown
	Recovery	30cm
	Components	None
Sample Pore waters, CT, living	g foraminifera, micropa	leontology, MAD,
microplastics oDNA	Pteropods, Metagenomi	

Meteor ID	Lat	Long	Water depth
M196_26	36.562	21.107	5108m
Geographic	Calypso deep in Helle	nic trench.	
location			

Sedimentary successio	n (photograph)	Descri	iption
		Sediment type:	
		Fine grained	siliciclastics
		Colour	Light brown to
			grey
Seafloor state (ph	notogranh)	Visual De	scription.
		0-1.5cm: dark b 1.5-12cm: l 12-21cm: mottled brown in light b 21-33cm: grey v	rown sediments ight brown l; streaks of dark rown sediments
		Recovery	35cm
		Components	Pteropods
Sample	Pore waters, CT, livin MAD, microplastics,		

Meteor ID	Lat	Long	Water depth
M197_27	36.6282	20.26785	3445
Geographic	Ionian sea		
location			

Sedimentary succession (photograph)	Doser	intion	
Sedimentary succession (photograph)	Description Sediment type:		
	Fine grained siliciclastics		
	Colour	Light brown to dark	
		brown	
Seafloor state (photograph)	Visual De	escription:	
- Seanoor State (photograph)		wn – mottled	
	3-6cm: Very light brown, flat surface		
	6-17cm: light brown, mottled bottom		
	surface 17-32cm: very light brown 32-32.5cm: dark grey ring		
		rangeish brown grey brown	
		arpleish grey	
		n: brown	
		light brown	
		-	
	Recovery	52cm	
	Components	pteropods	
-			
microplastics, eDNA, Pteropods, Metagenomics			

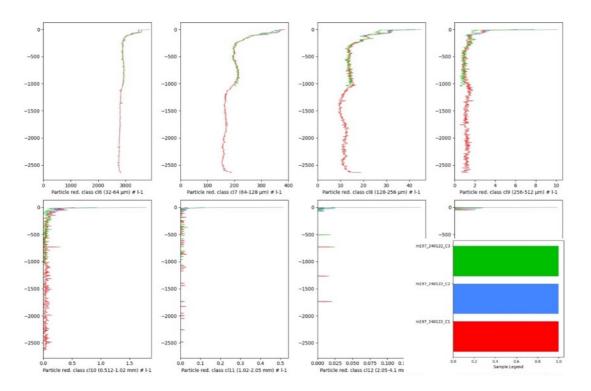
Meteor ID	Lat	Long	Water depth
M197_28	37.28	20.20	3463m
Geographic	Ionian sea		
location			

Sedimentary succession (photograph)	Descr	intion
Seamentary succession (photograph)	Description Sediment type:	
	Fine grained siliciclastics	
	Colour	Light Brown to
	Conodi	brown to grey black
Seafloor state (photograph)	Visual De	escription:
	Few translucent pteropod shells on surface (0.3cm) 0-9cm: brown 9-17cm: grey brown 17-22cm: orangeish brown 22-24cm: grey brown 24-25cm: brown black 25-26.5cm: light brown 26.5-29cm: brown 29-32cm: grey black (Sapropel)	
	Recovery	32cm
Sample Pore waters, CT, livin	<b>Components</b> g foraminifera, micropa	Pteropods

Meteor ID	Lat	Long	Water depth
M197_29	37.54	19.39	3190m
Geographic	In the Ionian Sea		
location			

Sedimentary succession (photograph)	Descr	iption
, second photograph)	Sediment type:	
		siliciclastics
	Colour	Light brown to
		brown
Seafloor state (photograph)	Visual De	scription:
	0.5-7cm: 1 7-20cm 20-28cm 28-30cm: 0 Thin 0.2cm black ru layer, followed by 0 lay 30.5-32cm:	pods on surface ight brown n: grey n: brown Grey brown gged ring below this 9.3cm reddish brown er) light brown ddish brown

		Recovery	32cm
		Components	Pteropods
Sample	Pore waters, CT, living foraminifera, micropaleontology, MAD,		leontology, MAD,
	microplastics, eDNA, Pteropods		



## 12.19 Underwater Vison Profiler Profiles From Three Casts in Station 15