

# New coordinates for the hydrothermal structures in the Logatchev vent field at 14°45'N on the Mid-Atlantic Ridge: Supplement to article in InterRidge News, Vol. 16

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In last year's issue of InterRidge News, we reported on a new calibration of the geographic positions of the hydrothermal vent structures in the Logatchev hydrothermal field (LHF) based on long-baseline (LBL) navigation data obtained with the Woods Hole Oceanographic Institution ROV *Jason II* during the German cruise MSM04/3 with R/V *Maria S. Merian* in Jan. - Feb. 2007 (Borowski et al., 2007). We also reported on the detection of an additional smoking crater next to "Anna-Louise" vent that had been visited during earlier cruises by submersible and ROV dives, but was not recognized as a separate hydrothermal structure. A recent re-examination of our video material, however, revealed that our initial interpretation of the identities of the "new" crater and "Anna-Louise" was incorrect: "Anna-Louise" is indeed the southernmost and at 25-m diameter the largest of the smoking craters in LHF as was already described by Gebruk et al. (2000). The name "Smokey Strobe" is therefore invalid. The "new" crater (referred to as "Anna-Louise" in Borowski et al., 2007, and Petersen et al., 2007) is located between "Anna-Louise" and "Irina I" and resembles the craters "Irina I" and "Site B" in size. We named the "new" crater "Candelabra" referring to a black smoker on its rim which had already been named during an earlier cruise with R/V *Meteor* in 2004.

**Table 1:** New coordinates for the LHF vent structures obtained during R/V *Maria S. Merian* cruise MSM04/3.

**Figure 1:** Revised locations of the LHF vent structures.

The previous article (Borowski et al., 2007) referred to geographic coordinates of the hydrothermal structures in a table which by mistake was not included. We therefore present here the coordinates (Table 1) and a revised version of the map given by Petersen et al. (2007) (Fig. 1).

## References

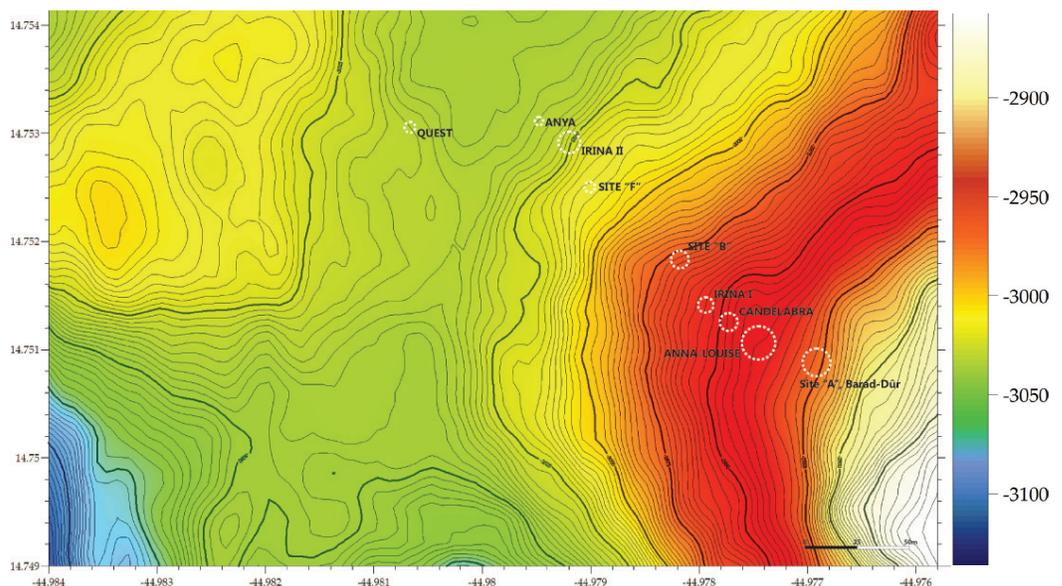
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in the Logatchev vent field at 14°45' N on the Mid-Atlantic Ridge. InterRidge News 16, 13-14, 2007.

Gebruk, A.V., Chevalloné, P., Shank, T., et al. Deep-sea hydrothermal vent communities of the Logatchev area (14°45'N, Mid-Atlantic Ridge): diverse biotopes and high biomass. Journal of the Marine Biological Association UK 80, 383-393, 2000.

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Site	Latitude	Longitude	Water depth	Distance to next structure
Quest	14.75291	-44.9806	3026 m	121 m
Marker "Anyá"	14.75285	-44.9795	3029 m	38 m
Irina II	14.75279	-44.9792	3021 m	67 m
Site F	14.75225	-44.9788	2963 m	110 m
Site B	14.75166	-44.9781	2946 m	50 m
Irina I	14.75127	-44.9778	2935 m	33 m
Candelabra	14.75112	-44.9776	2926 m	30 m
Anna-Louise	14.75095	-44.9774	2911 m	70 m
Site A	14.75076	-44.9768	2914 m	



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