ICEPROFILE
NLICE = 0

# Z T RHO DSN FWFR DG DBUB SI THETB BRAT N
ENDG

I A P G E N  input specifications
IPR = 1 IRUN = 1
IPRE = 4 NFRE = 4 FN= 85.500 DN= 15.000
IANG = 3 NANG = 6 FA= 68.420 DA= 50.000
FRE =
19.350 22.235 37.00 85.50 182.00 190.31
ANG =
54.00 19.20 30.05 40.94 51.84 62.68 73.64 84.55 0.00 0.00
ENDG

I A P A T M  input specifications
IPR = 1 IRUN = 1
MODHYM= 2 IPHAMA= 2
TWV=001.00 TO2=001.00 THY=001.00
ENDG

I A P O C E  input specifications
IPR = 1 IRUN = 1
IREF = 3 IEPSIL= 3 FEPV=0.000 DEPV=0.000 FEPH=0.000 DEPH=0.000
IFOAM = 4
ENDG
REFLECTIONV
0.024 0.026 0.035 0.033 0.500 0.500 0.500 0.500 0.500 0.500
REFLECTIONH
0.060 0.060 0.060 0.051 0.500 0.500 0.500 0.500 0.500 0.500
ENDG

I A P I C E  input specifications
IPR = 1 IRUN = 1
ITEMIS= 0 IELEV = 6 TEMPE = 273.13
IIICE = 3
ENDG
EMISTEMP
255.50 252.10 248.70 247.70
ENDG
RADTRA input specifications

IPR = 1 IRUN = 1
IOPT = -1 IWFT = 11 ISCAT = 1 IPHA = 4 ICUR = 0 TBSP = 2.70 DMX = 0.100
ICOV = 2 COVI = 0.80

*************************************************************************

B.6 Case 6

Contents of runpar.par used for simulation # 6.

*************************************************************************

ENVATM input specifications

IPR = 1 IRUN = 1
ITEM = 0 PO = 1000.00 TO = 3.15 GAMT = 6.50 ZTINV = 10.0 DTO = 1.00
IATMOS = 1 IPROF = 1 FILE = ~/esa/validation/rs_case6.1.bin
IWV = 0 RHS = 100.00 P0 = 3.00 PWV = 30.00
ITOP = 0
IPBL = 0 HPBL = 2.000 TP = 273.00 GPBL = 3.000 QPBL = 2.00
IHYDAN = 0 IHYDFX = 1 RHCL = 85.0
IMESH = 0 NNZL = 20 FZ = 0.000 DZ = 0.500
ENDG

*************************************************************************

FIXED CLOUDS

NCL = 2
# ICT ICB LWH LWHT PHASEF XSECT PHASE SIZEDIS
  30  06 0.050 1 2 2 3 15
 103  53 0.010 1 2 2 3 15
ENDG

*************************************************************************

ENVICE input specifications

IPR = 1 IRUN = 1
SAL = 33.00 WND = 06.00 SST = 273.15 DST = 0.00 IWND = 0 ISST = 0
ENDG

*************************************************************************

ENVICE input specifications

IPR = 1 IRUN = 1
ICE = 1 ICEPRO = 1 FILE = ~/esa/validation/ice_case6.1.dat
ENDG

*************************************************************************

ICEPROFILE

NLICE = 0
# Z T . RHO DSN FWFR DG DBUB SI THETB BRAT N
ENDG
I A P G E N  input specifications
IPR  =  1 IRUN  =  1
IFRE  =  4 NFRE  =  4 FN=  33.600 DN= 15.000
IANG  =  3 NANG  =  6 FA=  0.000 DA= 50.000

FRE  =  
19.350 22.235 37.00 85.50 182.00 190.31

ANG  = 
08.50 19.20 30.05 40.94 51.84 62.68 73.64 84.55 0.00 0.00
ENDG

I A P A T M  input specifications
IPR  =  1 IRUN  =  1
MODHYM=  2 IPHAMA=  2
TWV=001.00 T02=001.00 THY=001.00
ENDG

I A P O C E  input specifications
IPR  =  1 IRUN  =  1
IREF  =  3 IEPSIL=  3 FEPV=0.000 DEPV=0.000 FEPH=0.000 DEPH=0.000
IFOAM =  4
ENDG

REFLECTIONV
0.024 0.026 0.035 0.033 0.500 0.500 0.500 0.500 0.500

REFLECTIONH
0.060 0.060 0.060 0.051 0.500 0.500 0.500 0.500 0.500

I A P I C E  input specifications
IPR  =  1 IRUN  =  1
ITEMIS=  0 IELEV =  6 TEMPE = 273.13

EMISTEMP
255.50 252.10 248.70 247.70

RAD T RA  input specifications
IPR  =  1 IRUN  =  1
IOPT  = -1 IWFT = 11 ISCAT = 1 IPHA = 4 ICUR = 0 TBSP= 2.70 DMX=0.100
ICOV =  2 COVI = 0.70
C References


Barber, P. and C. Yeh, 1975: Scattering of electromagnetic waves by arbitrarily shaped dielectric bodies. Applied Optics, 14, 286.


Campbell, W. et al., 1978: Microwave remote sensing of sea ice in the AIDJEX main experiment. Boundary Layer Meteor., 13, 309-337.


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REFERENCES


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