

[Appendix]

Fig. 1(1)~(4) Location map of track line (MS10~MS13 Area)

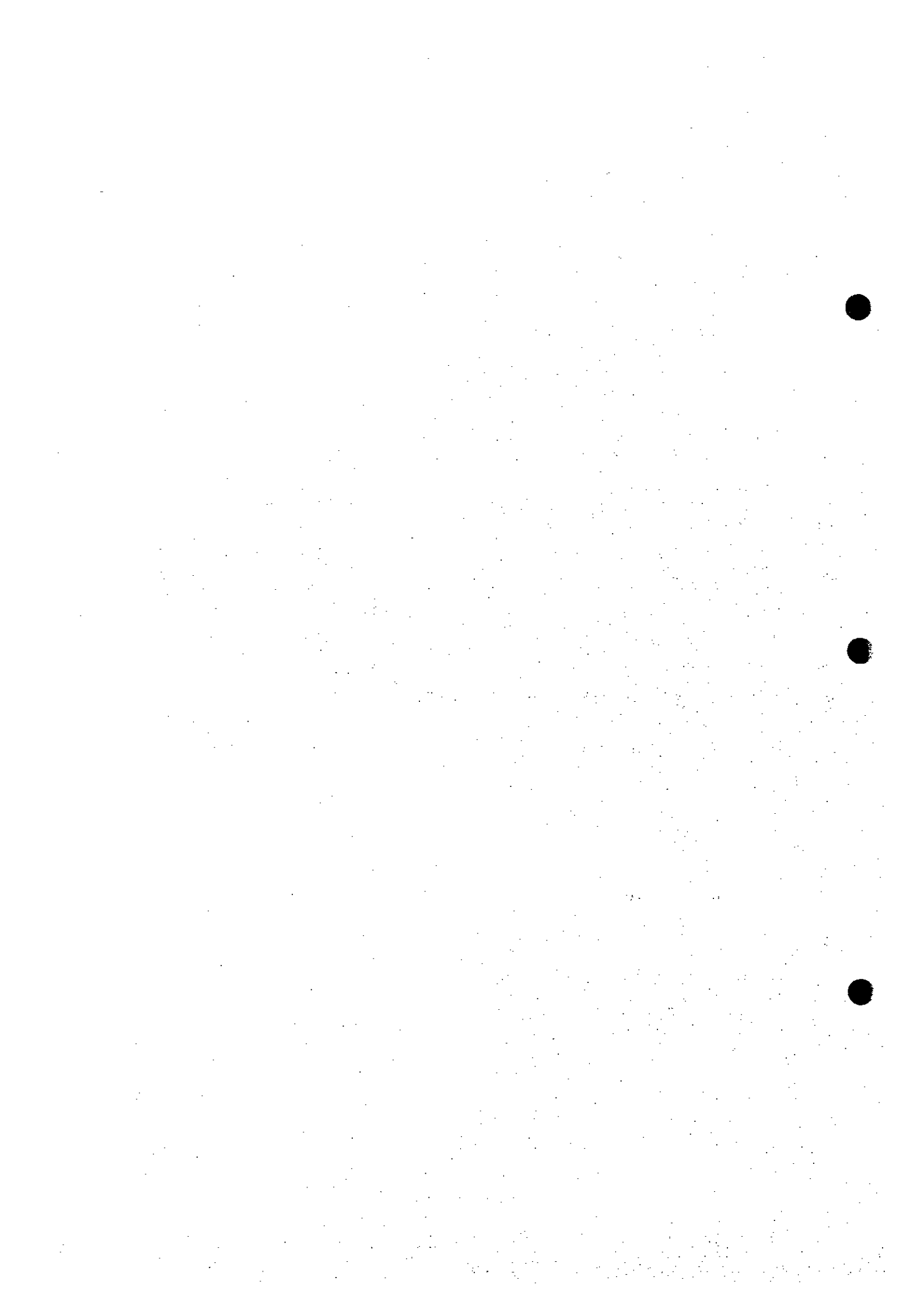
Fig. 2(1)~(4) Bathymetric map based on MBES (MS10~MS13 Area)

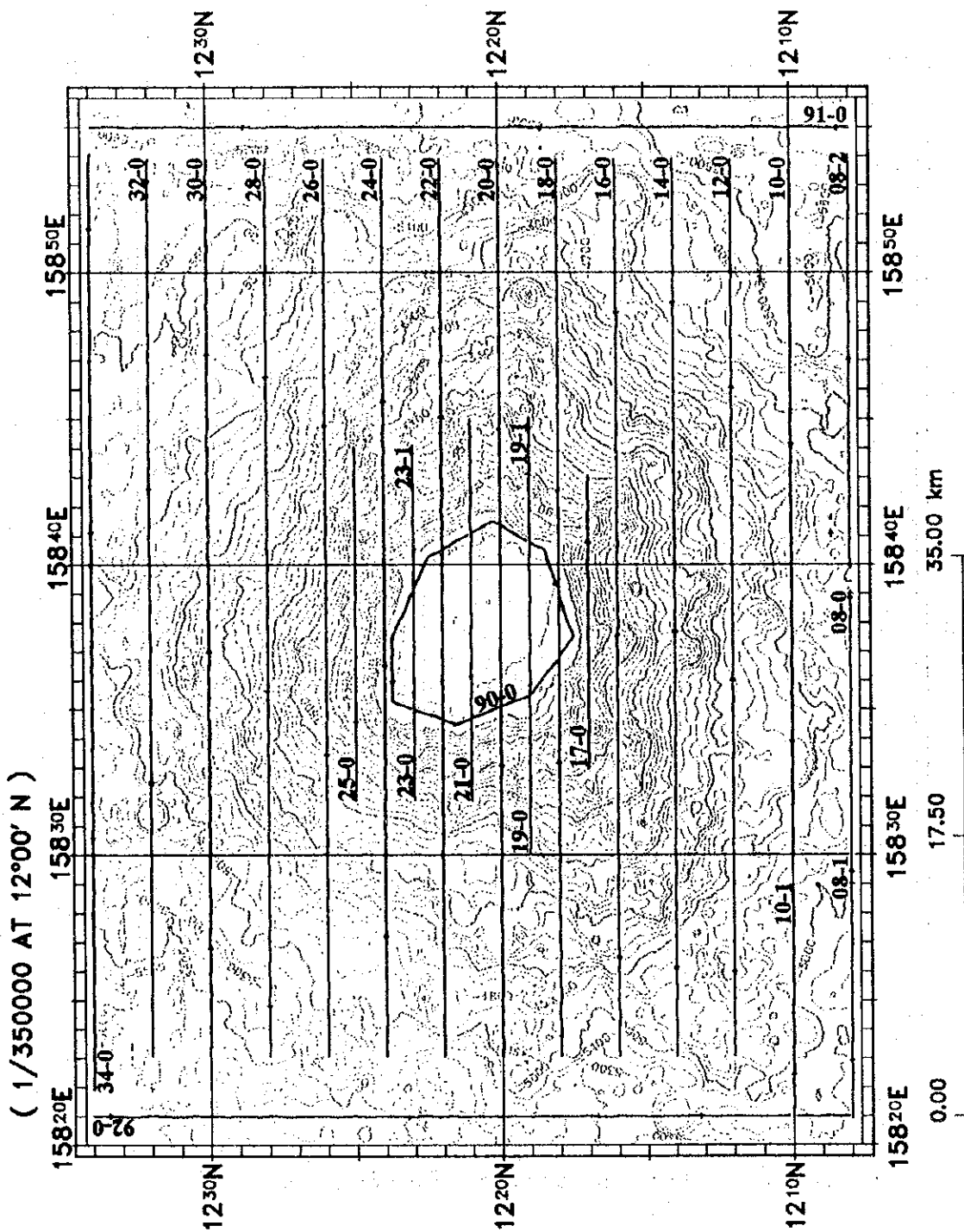
Fig. 3(1)~(4) Topographic gradient map based on MBES (MS10~MS13 Area)

Fig. 4(1),(2) Columnar charts of LC core

Fig. 5(1)~(6) Route map of FDC observation and exposed rate diagram of manganese crusts (MS10~MS13 Area)

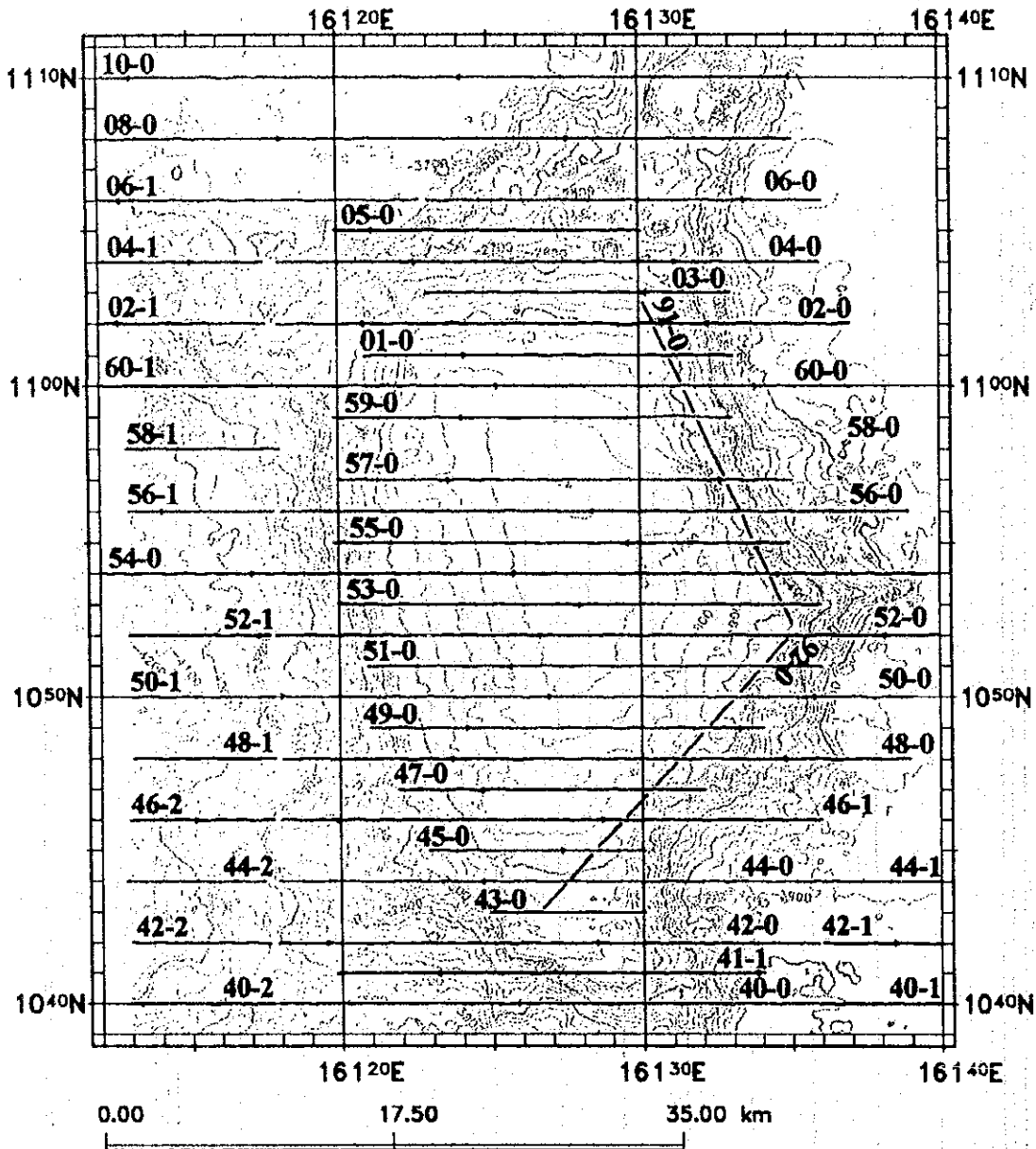
Fig. 6(1),(2) Results of CTD measurement(Temperature),(Salinity)





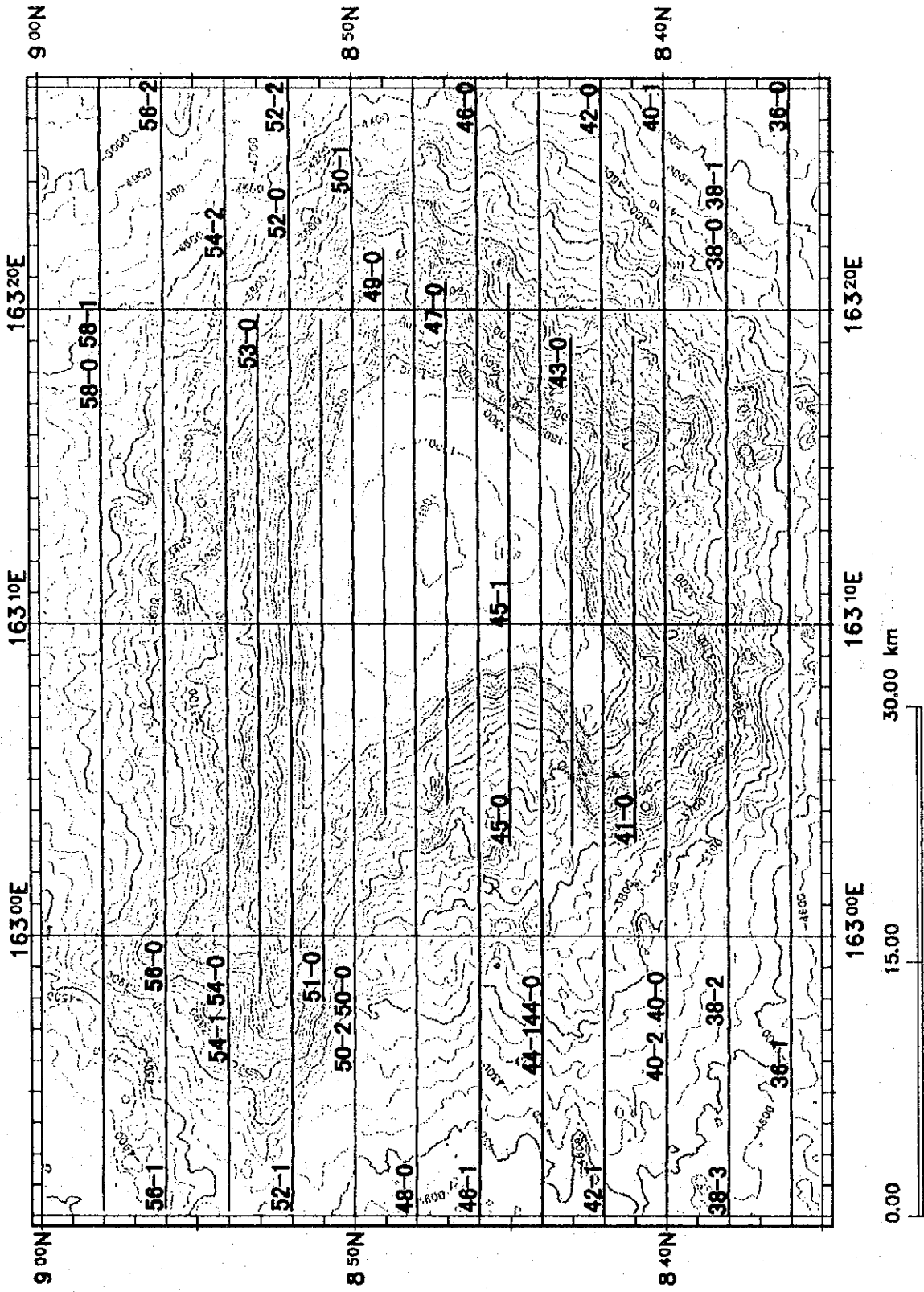
Appendix Fig.1 (1) Location map of track line of MS10 area.

( 1/350000 AT 11°00' N )



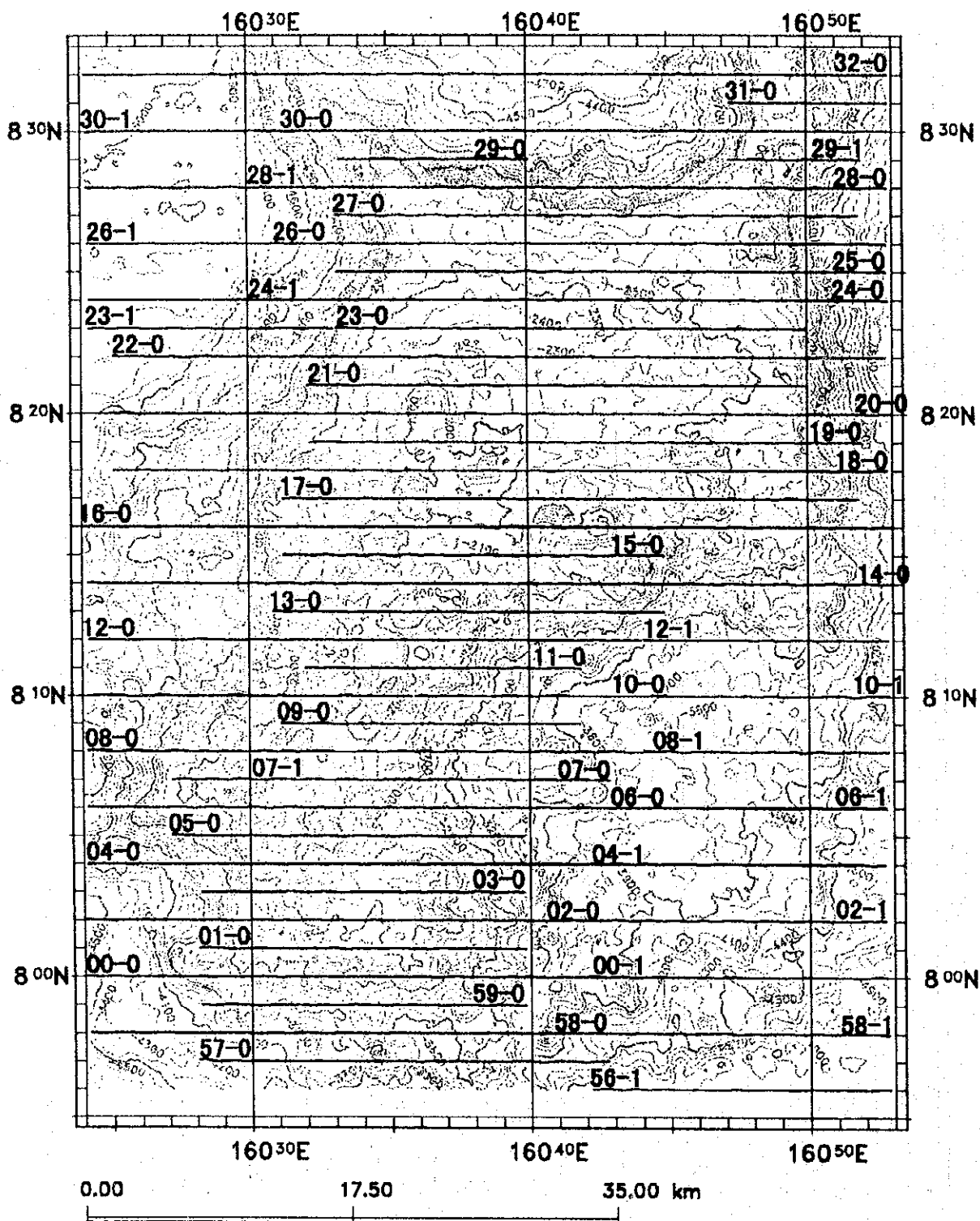
Appendix Fig.1 (2) Location map of track line of MS11 area.

( 1/300000 AT 9°00' N )



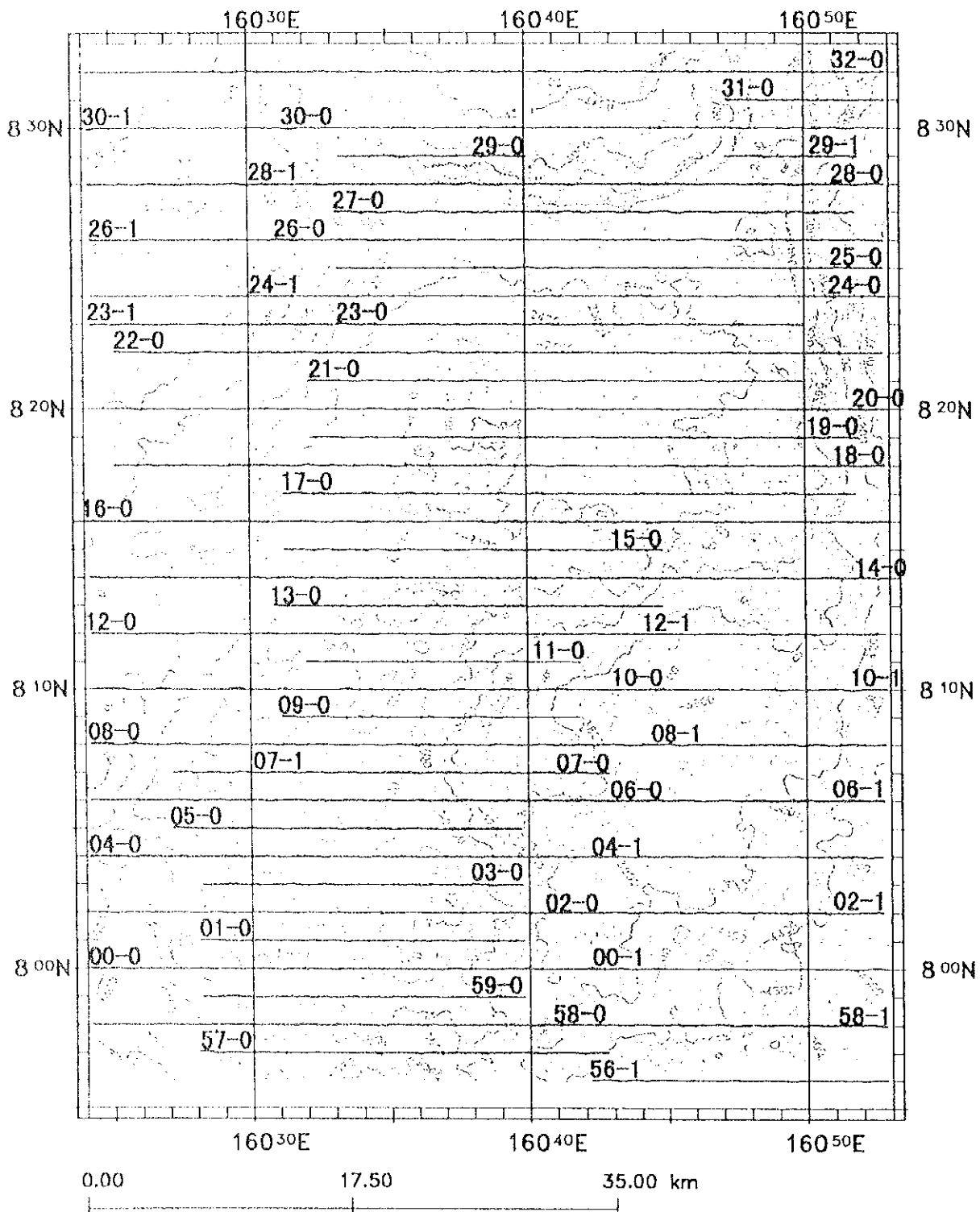
Appendix Fig.1 (3) Location map of track line of MS12 area.

( 1/350000 AT 8°00' N )



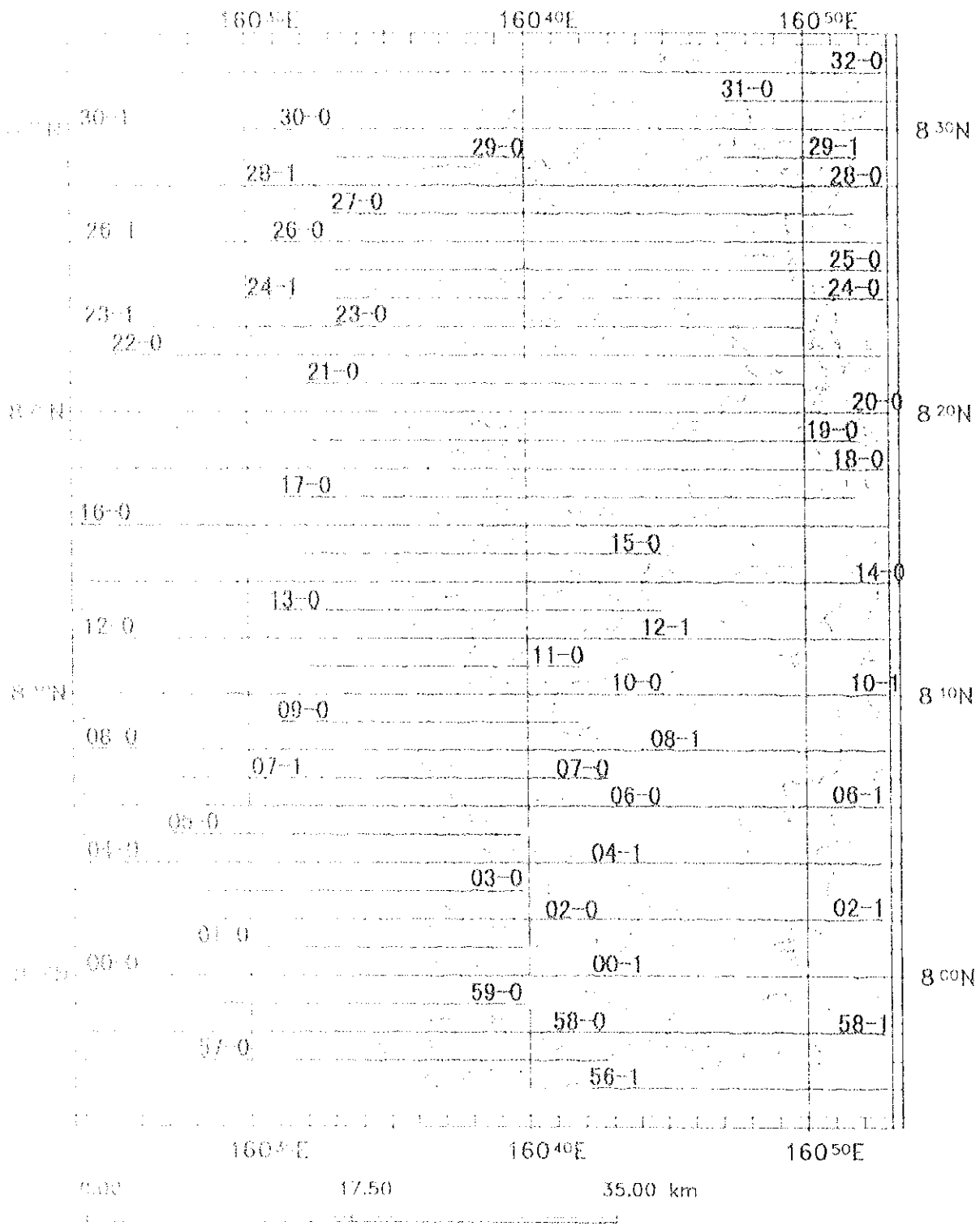
Appendix Fig.1 (4) Location map of track line of MS13 area.

( 1/350000 AT 8°00' N )



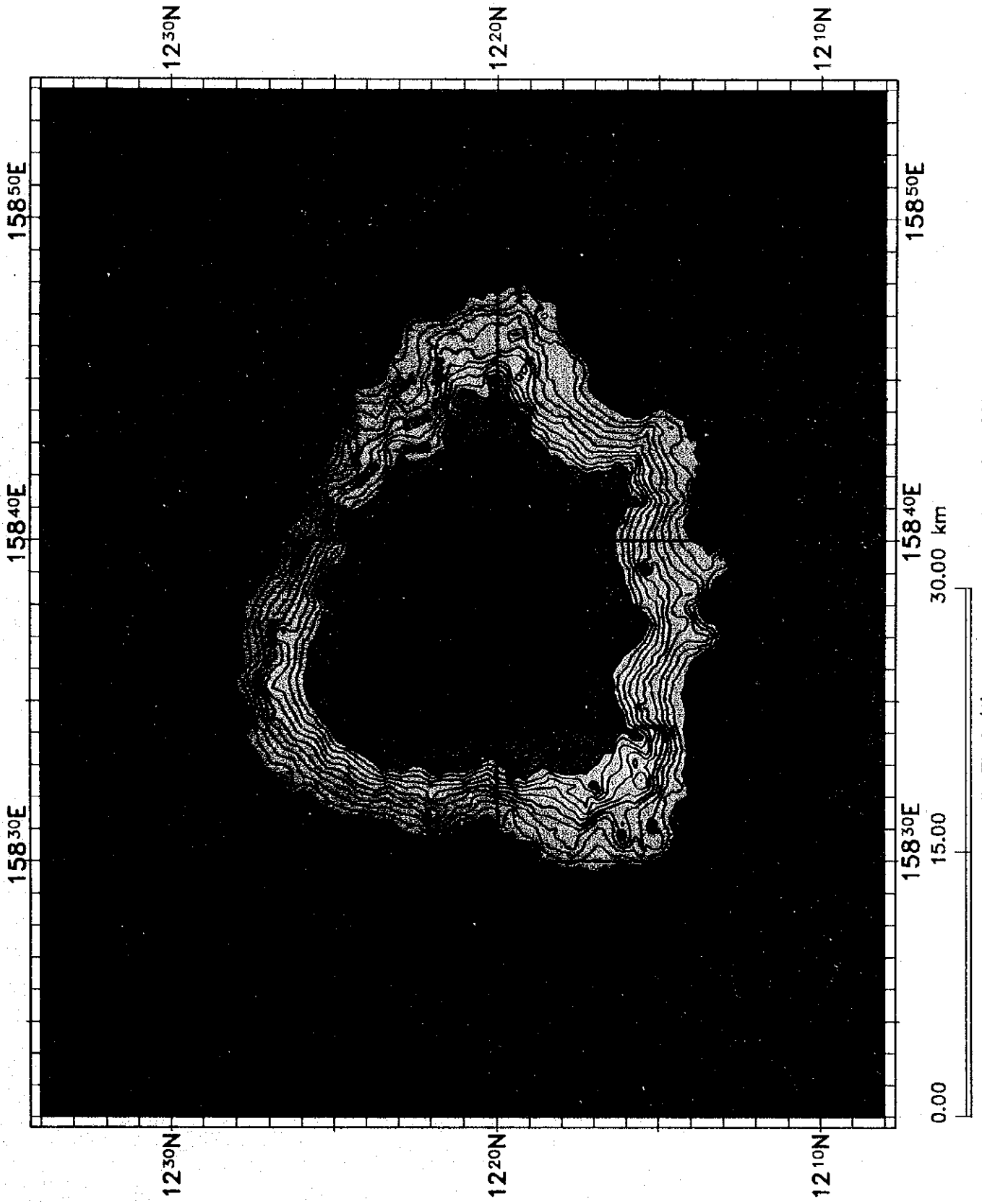
Appendix Fig.1 (4) Location map of track line of MS13 area.

( 1 : 350000 AT 8°00' N )

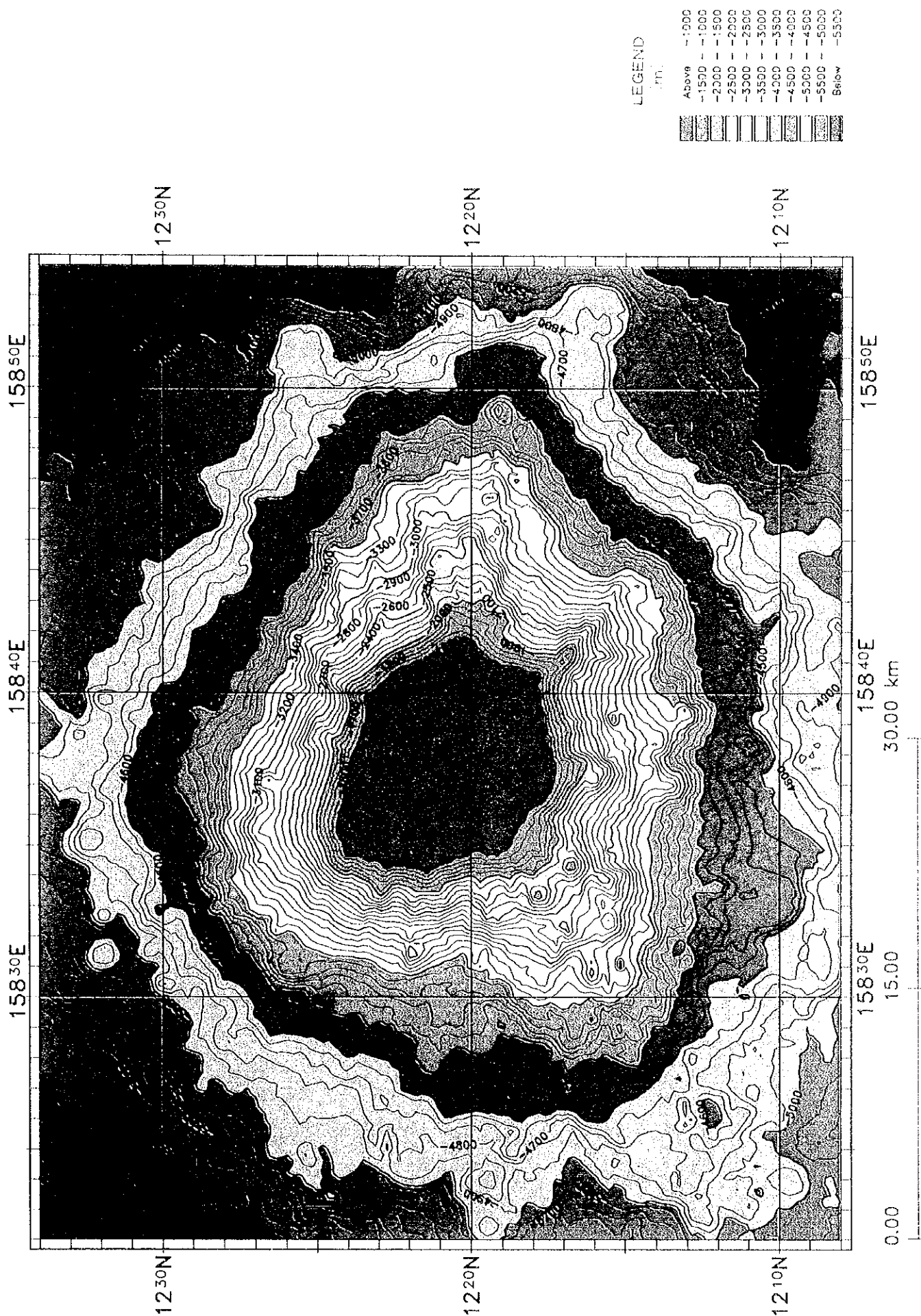


Appendix Fig 1 (4) Location map of track line of MS13 area.





Appendix Fig.2 (1) Bathymetric map based on MBES of MS10 area.



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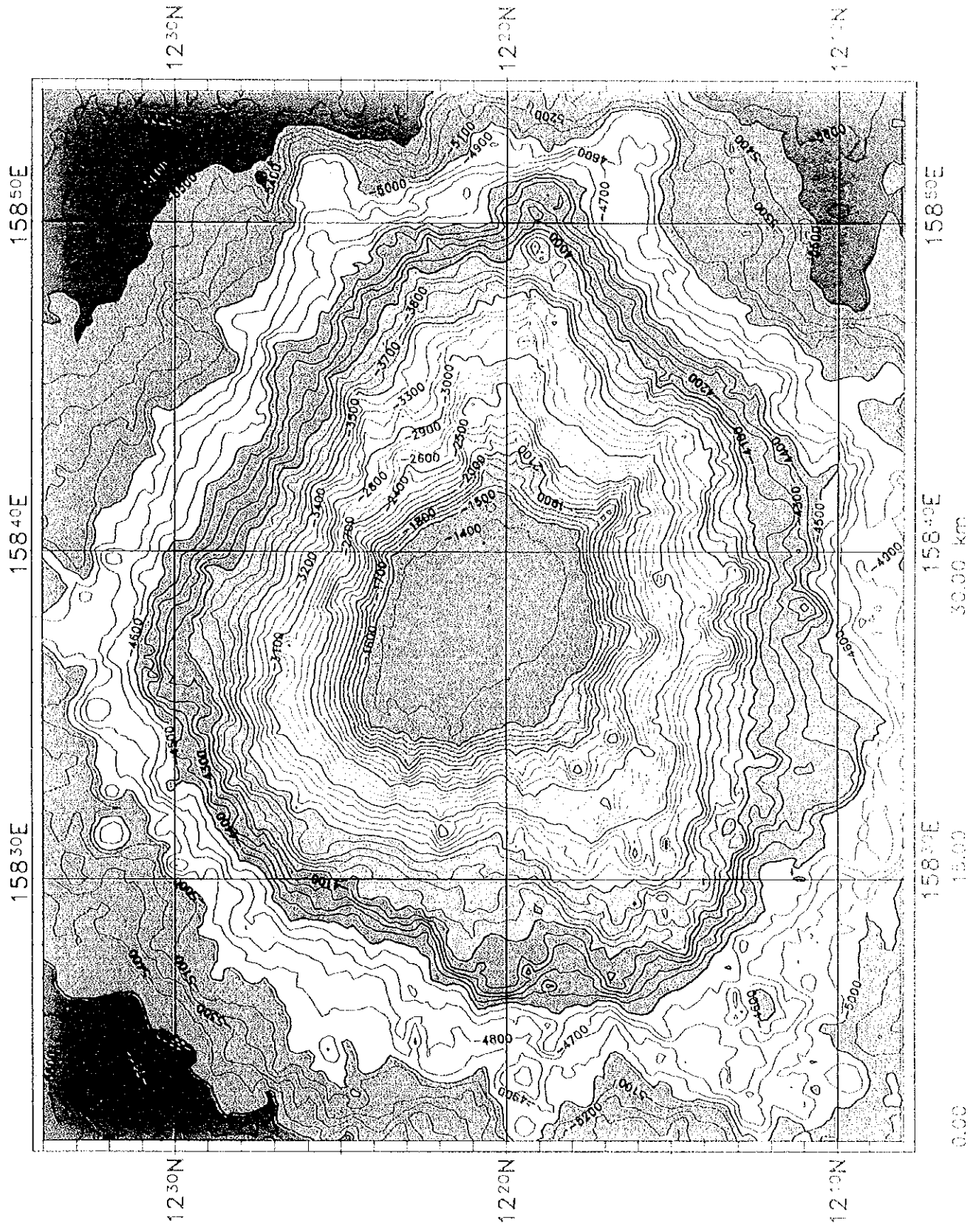
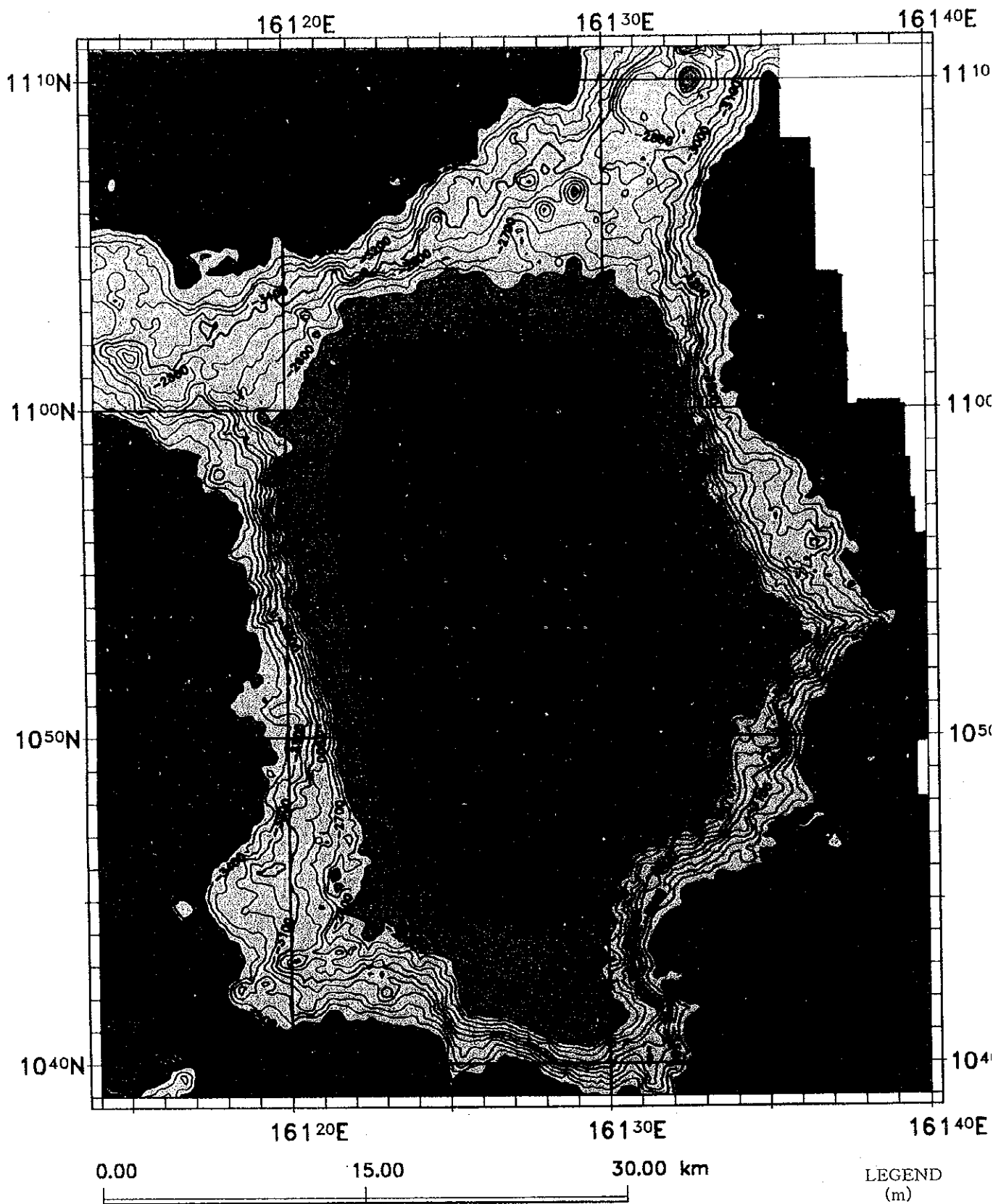
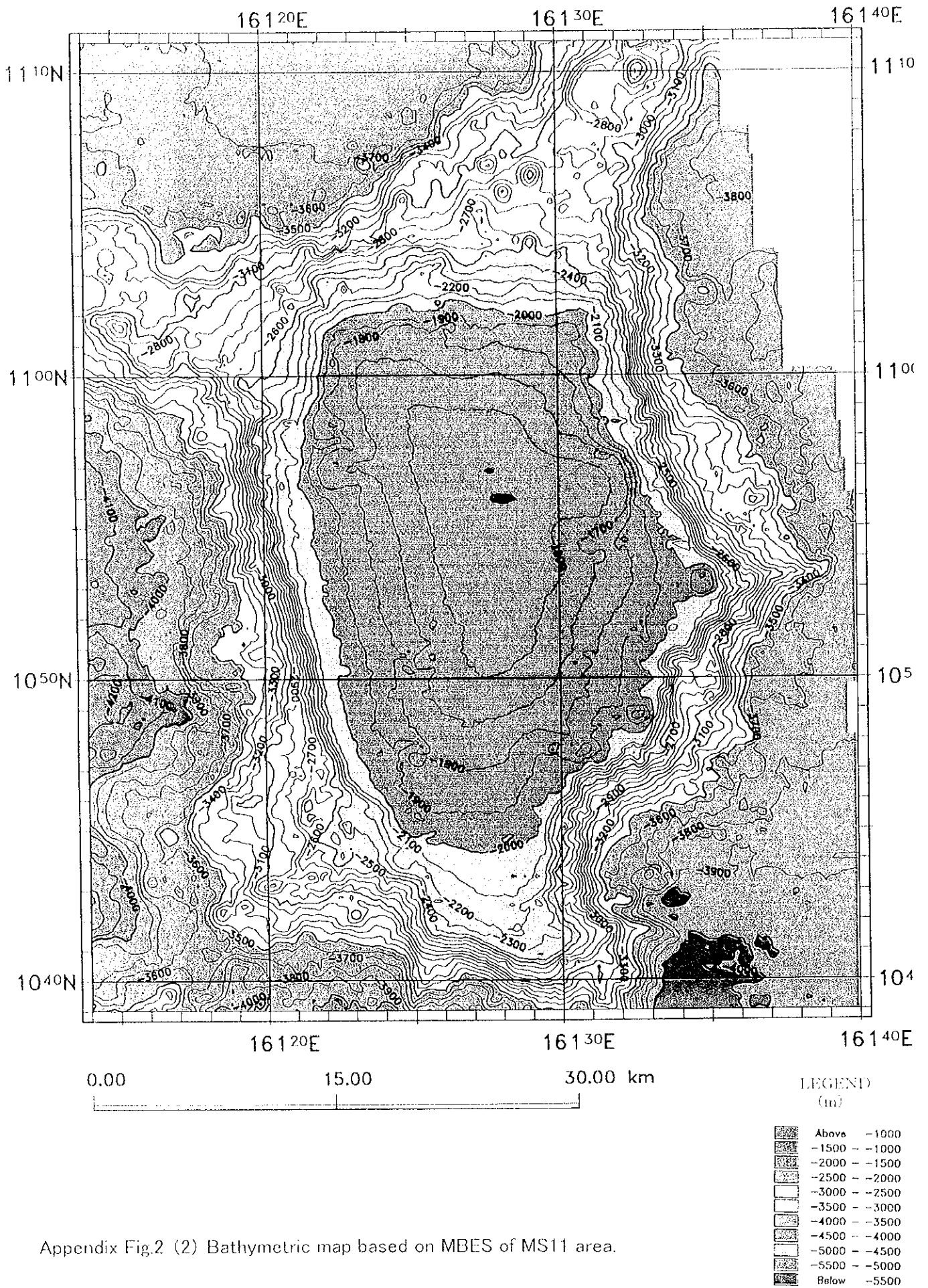


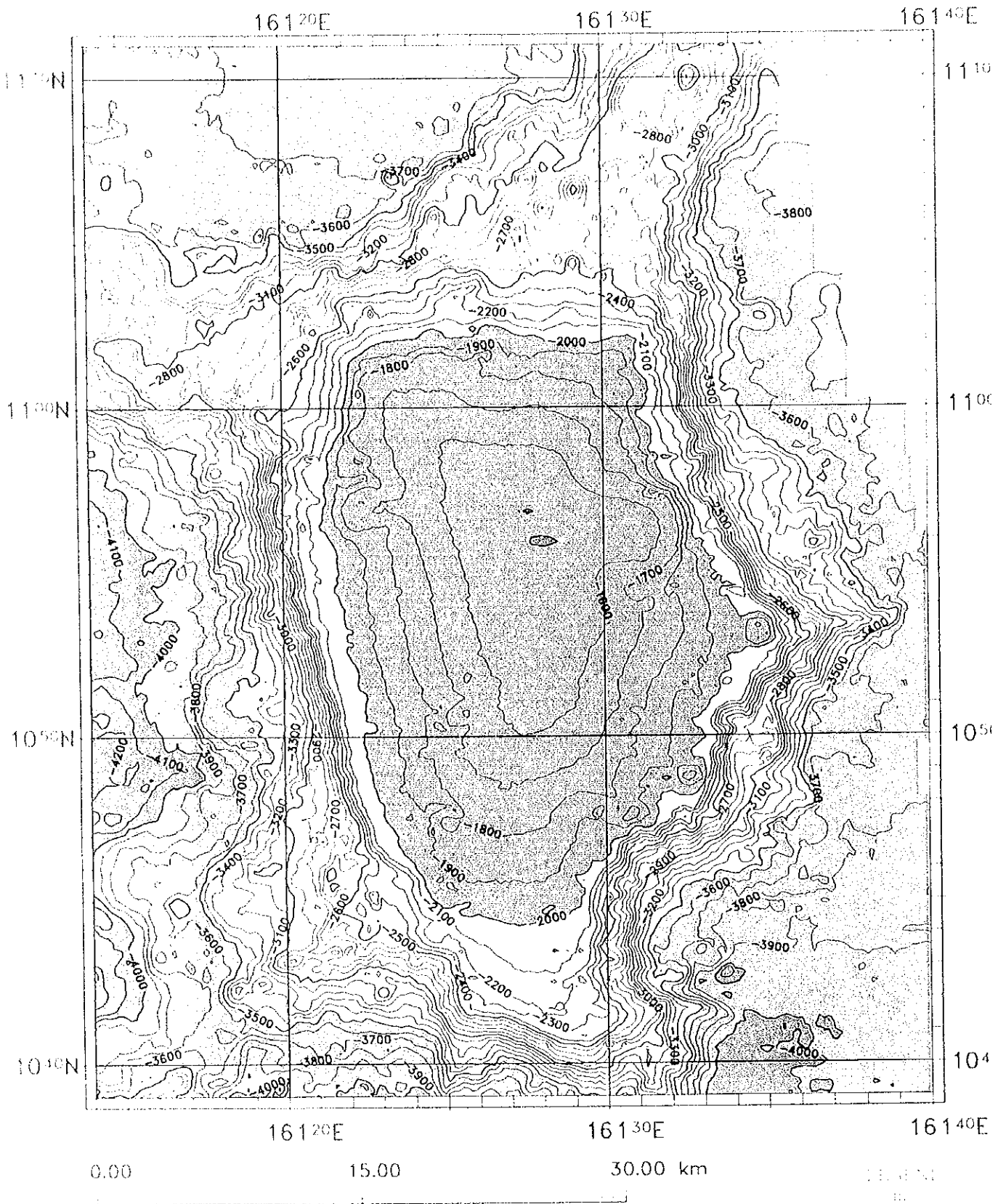
Figure 1. Topographic map of the study area based on MBES of MS10 area.



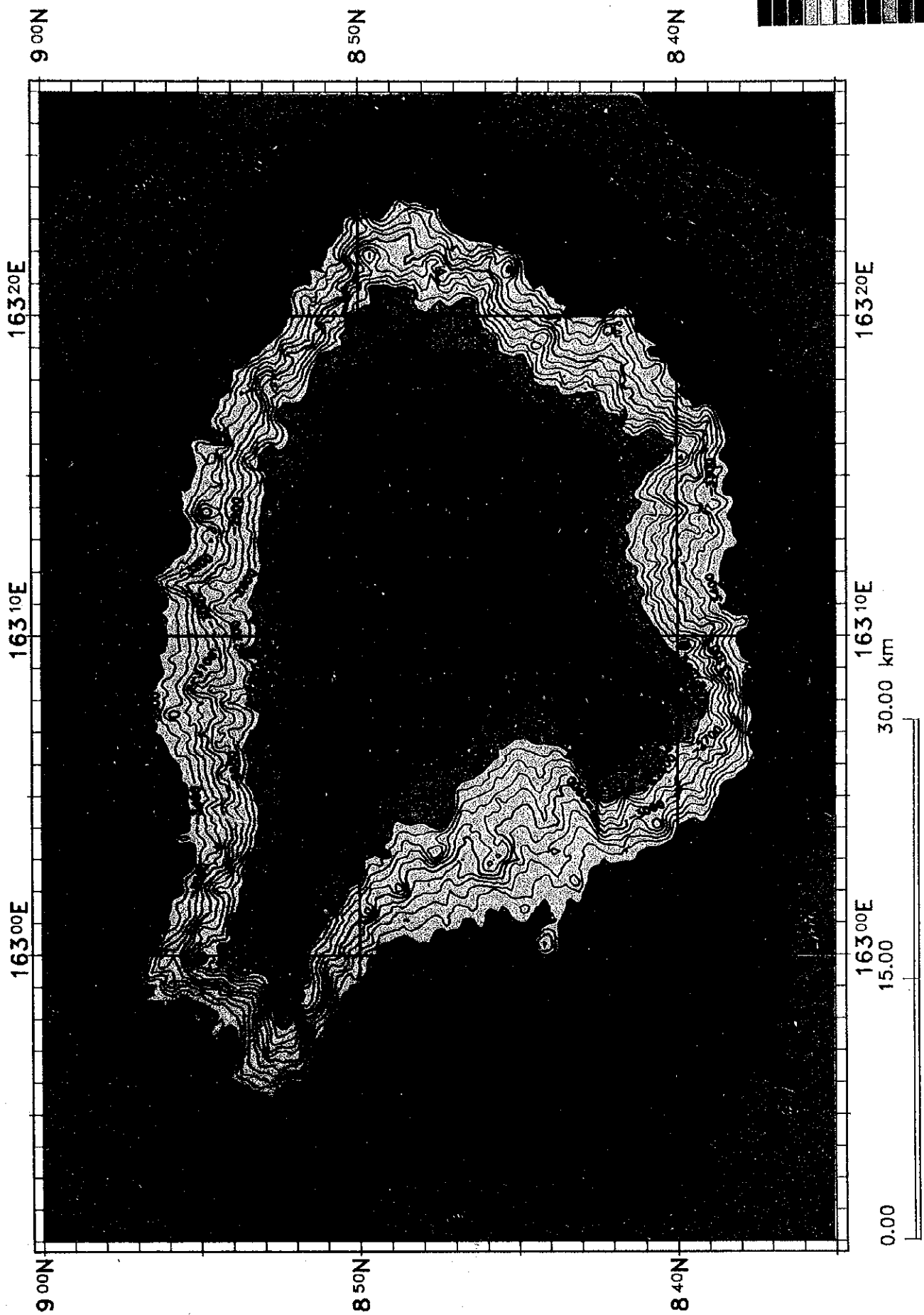
Appendix Fig.2 (2) Bathymetric map based on MBES of MS11 area.



Appendix Fig.2 (2) Bathymetric map based on MBES of MS11 area.

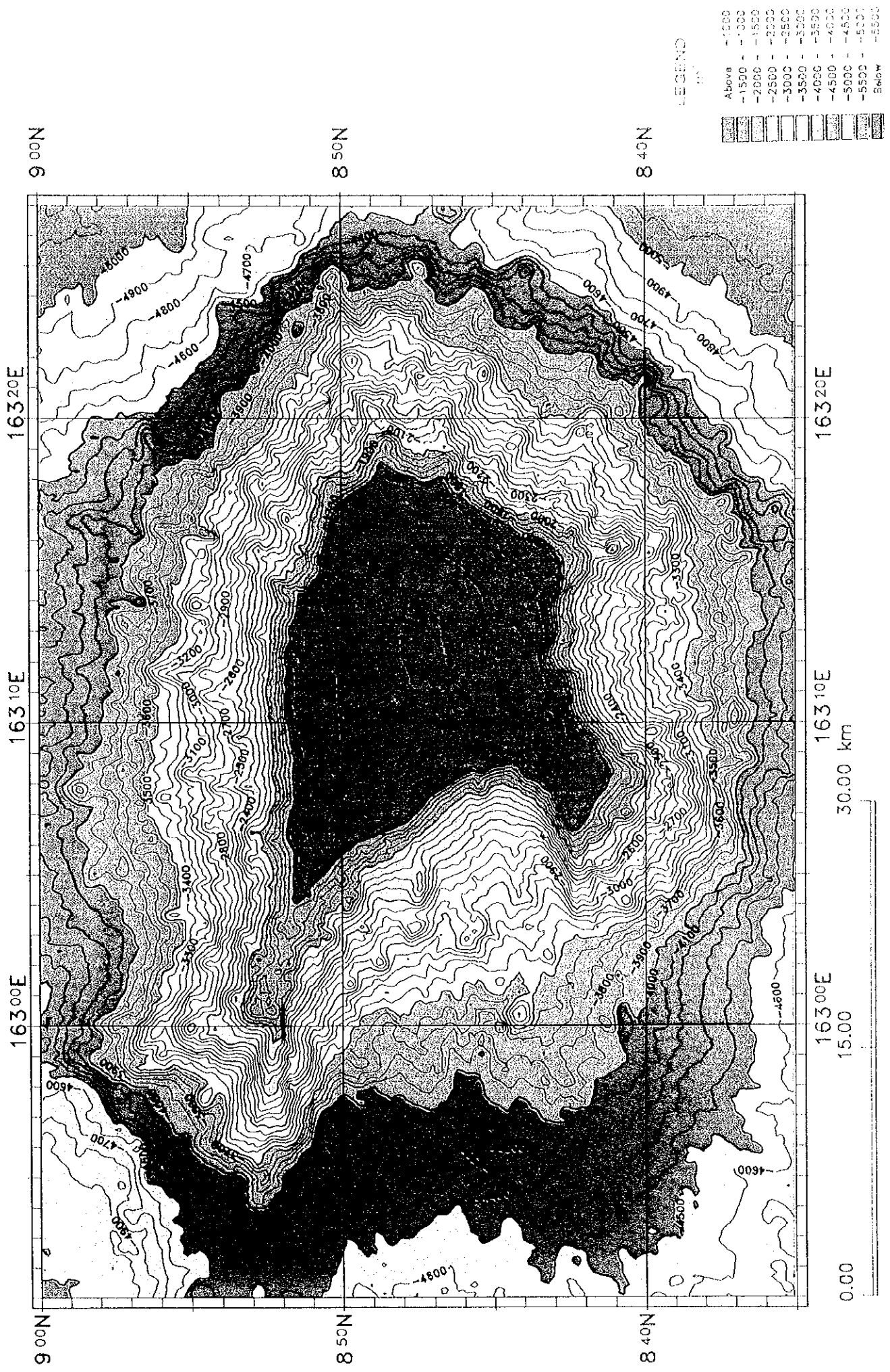


Appendix Fig. 2-2 Bathymetric map based on MBES of MS11 area.



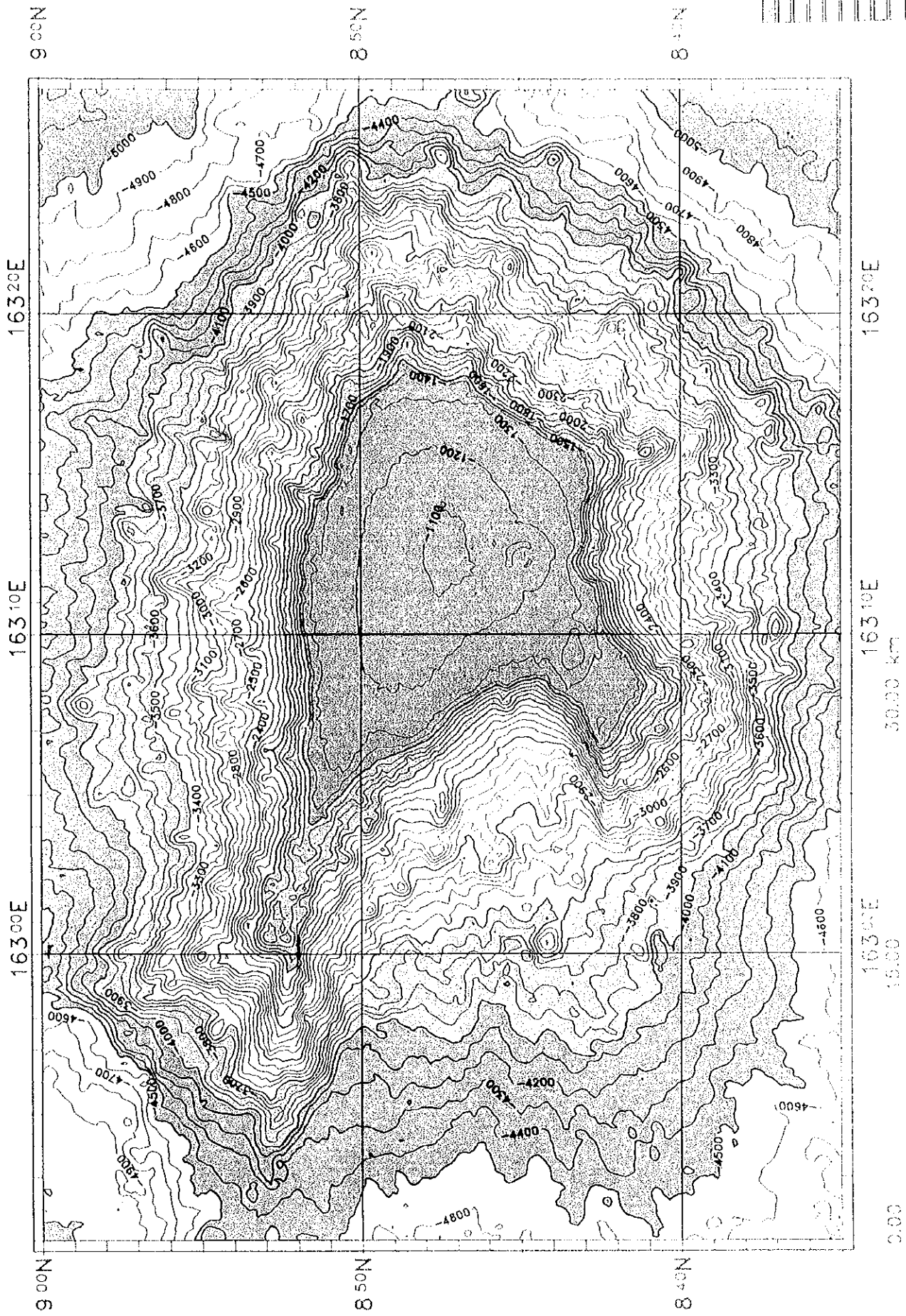
Appendix Fig.2 (3) Bathymetric map based on MBES of MS12 area.



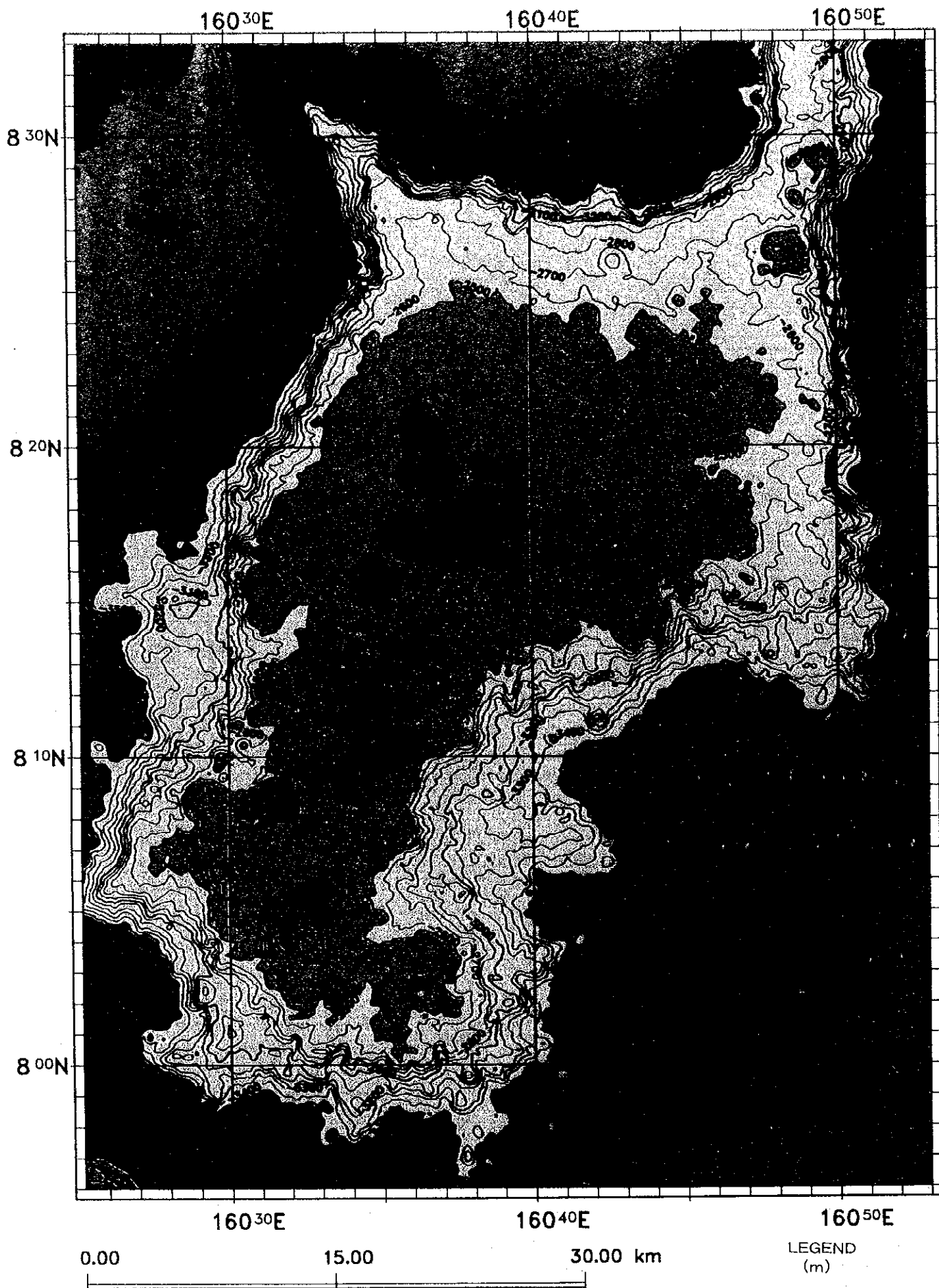


Appendix Fig.2 (3) Bathymetric map based on MBES of MS12 area.

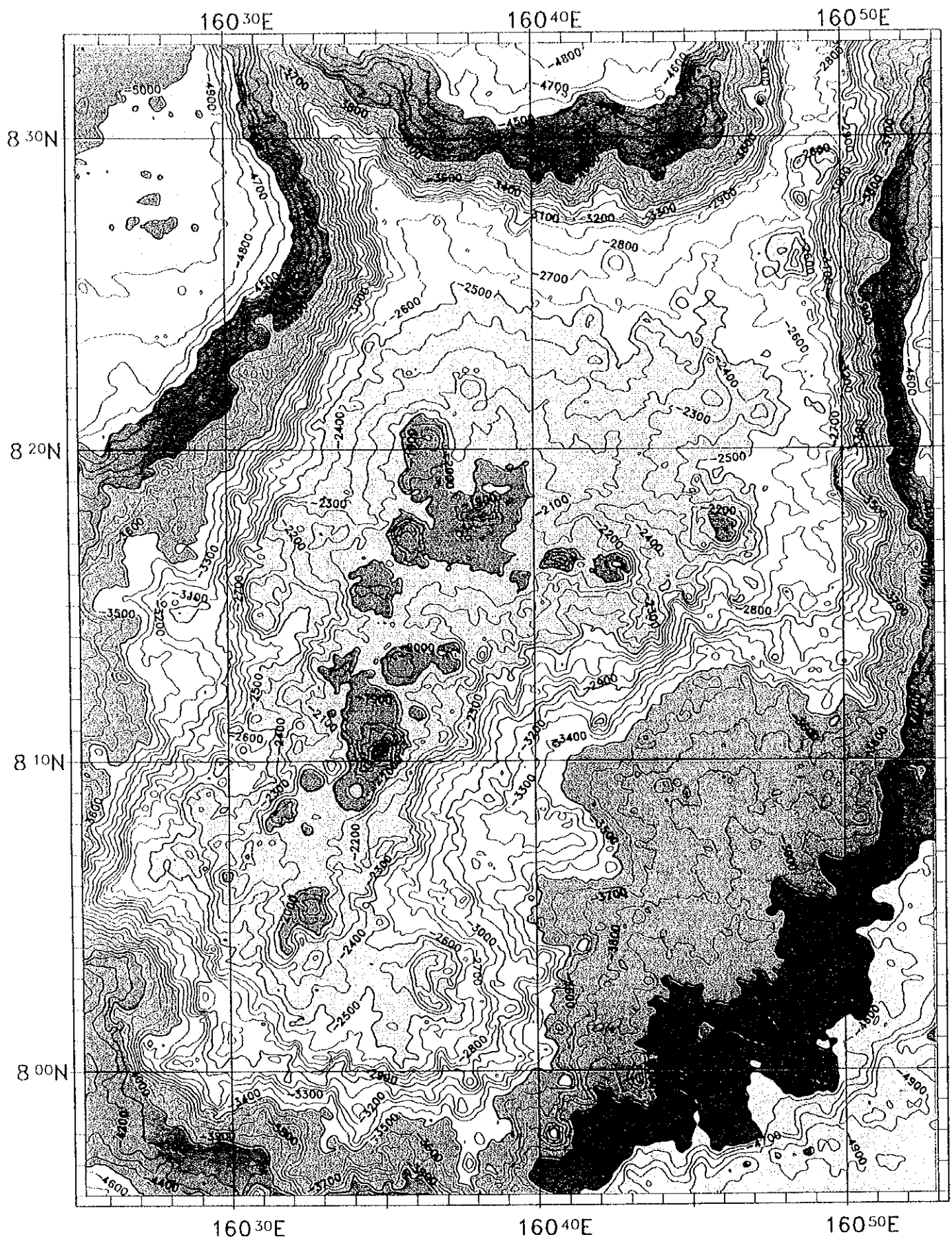




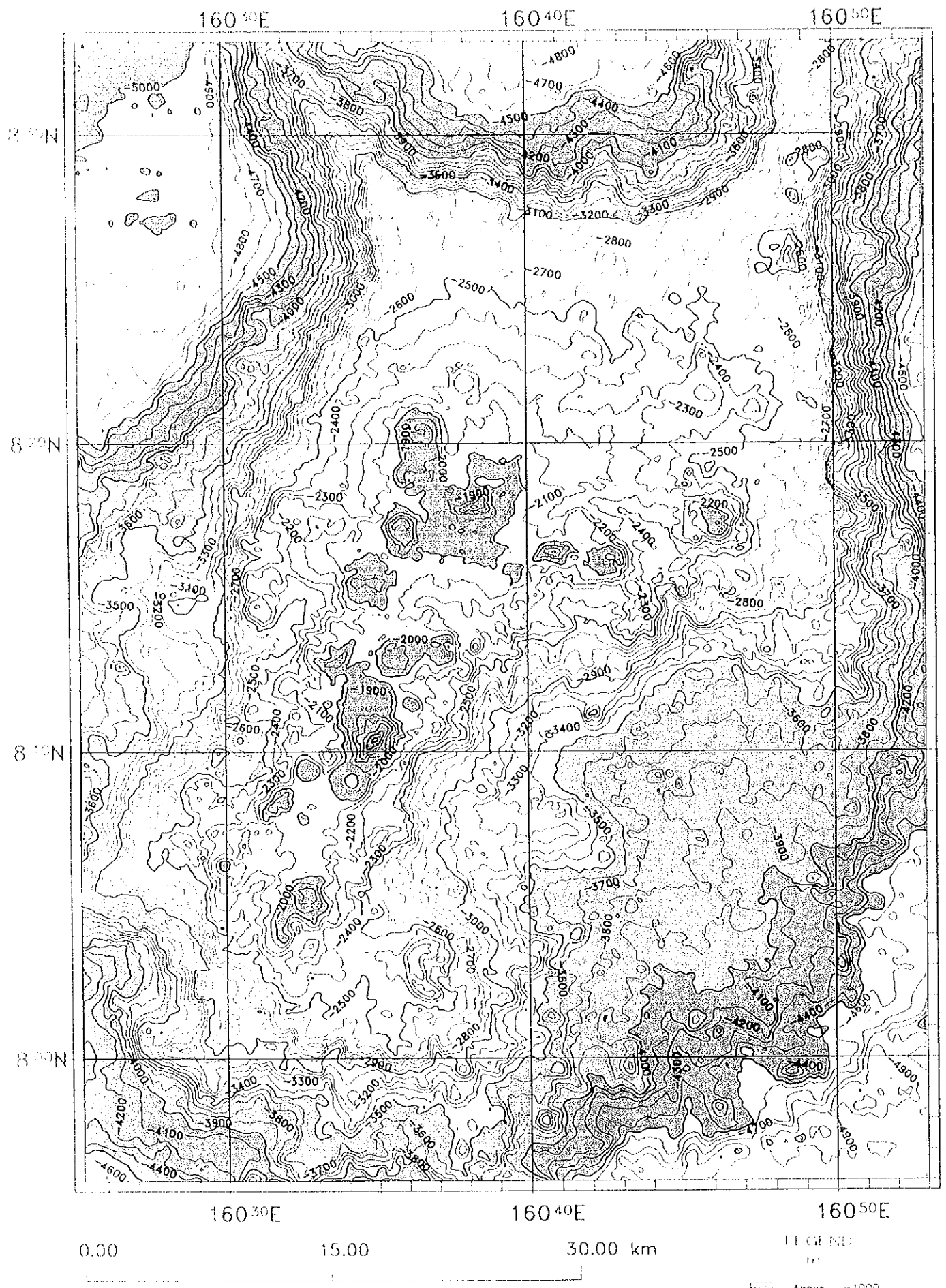
Appendix Fig. 2.3. Bathymetric map based on MBES of MS12 area.



Appendix Fig.2 (4) Bathymetric map based on MBES of MS13 area.



Appendix Fig.2 (4) Bathymetric map based on MBES of MS13 area.



Appendix Fig.2 (4) Bathymetric map based on MBES of MS13 area.