

東オングル島における地磁気測量 - 新規の建築施設による地磁気観測への影響の検証 -

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Geomagnetic survey in East Ongul Island in order to examine the influences to geomagnetic observations caused by facilities built by JARE-51 and JARE-52

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From 2010 to 2011, some large facilities had been constructed in the vicinity of the geomagnetic observation site at Syowa station, Antarctica. Iron materials used for these facilities can affect geomagnetic field at the observation site. In order to evaluate amount of the artificial magnetic noise caused by the iron materials, we carried out magnetic surveys around Syowa station before and after construction of these facilities. As a consequence, we found that the quantity of the artificial influence caused by the iron material at the observation site can be 0.8 nT at the largest estimate.

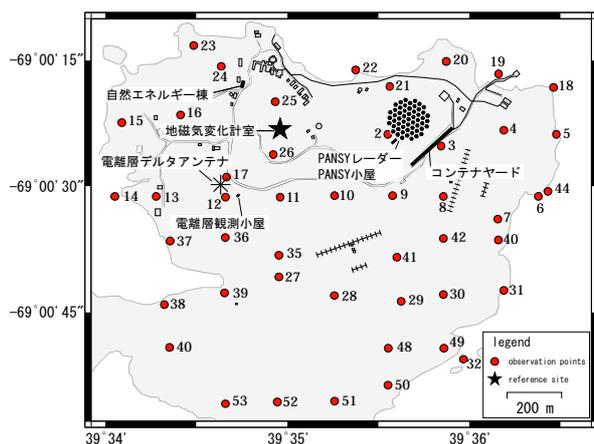


Figure 1. Locations of the magnetic survey points

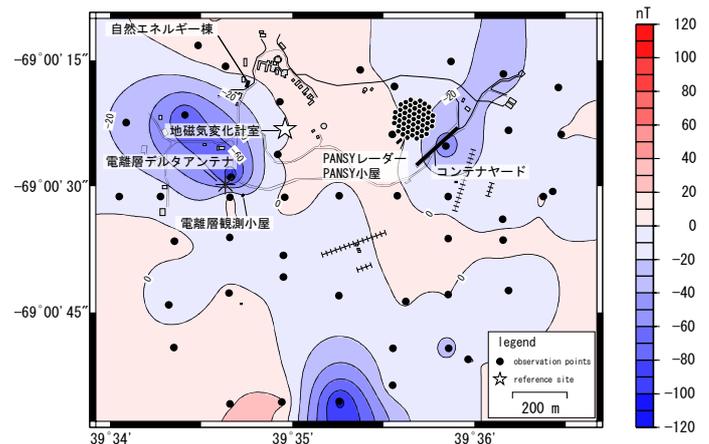


Figure 2. Distribution map for the change of the magnetic intensity between JARE-50 and JARE-52.

References

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