

Title: GNSS in the Arctic – Considerations and Experiences

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Abstract

The emerging interest in Marine Operations at high latitudes relies on the use of GNSS for safe navigation. Even if GPS has been successfully used on both poles, the use of GNSS arises some new concerns at these latitudes. Examples are: satellite geometry, ionospheric scintillations, coverage from geostationary satellite-based augmentation systems and the sparse ground-based infrastructure. The presentation analyzes these concerns, presents results from several test campaigns and proposes technical solutions to address specific GNSS arctic challenges

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