



Fugro Satellite Positioning



Marinestar® provides users with access to the latest developments in high performance Differential Global Satellite Navigation System (DGNSS) positioning.

Marinestar® - high accuracy positioning products and services

High Precision Marine Positioning

Marinestar® high performance positioning products and services are able to meet a wide and varied range of applications in marine scientific and oceanographic research, hydrographic survey, cable laying, dredging and fishing. Even naval users can benefit from Marinestar® services.



High accuracy in three dimensions for Hydrographic Survey

Precision in 3D

Marinestar® services deliver decimetre level accuracy – not just in horizontal position but also in height.



High accuracy positioning with no dependency on local shore based infrastructure for dredging

Services

Marinestar® GPS is a decimetre level, phase based service using satellite 'orbit and clock' data valid worldwide, based upon GPS L1 and L2 frequencies. The Marinestar® GPS Service provides a high performance global solution to a horizontal accuracy of 10 cm (95%) and vertical accuracy of 15 cm (95%).

Marinestar® GNSS is an integrated DGPS/DGLONASS, decimetre level, phase based, service using satellite 'orbit and clock' data valid worldwide, based upon GPS and GLONASS L1 and L2 frequencies. The Marinestar® GNSS Service provides a high availability, high integrity, global solution to a horizontal accuracy of 10 cm (95%) and vertical accuracy of 15 cm (95%).



Use of both the American GPS and Russian GLONASS Navigation Satellite Systems



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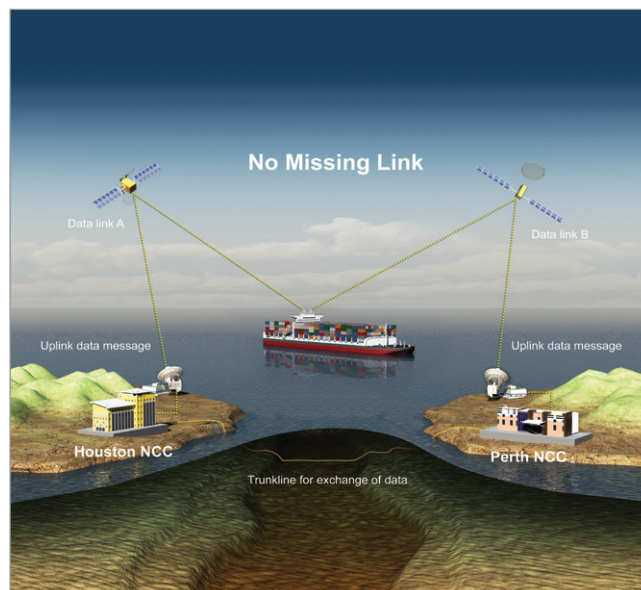
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Fugro Data Network

Fugro operates a fully duplicated network for the production and delivery of high performance Global Navigation Satellite System (GNSS) augmentation services.

The network includes:

- Independent Network Control Centres (NCC's) in Perth, Australia and Houston, USA
- Back up NCC's in Australia and America
- Dual satellite broadcast data links in all ocean regions
- Alternative data processing models and reference station networks



The Fugro Data Network



The world's largest cruise ship
Royal Caribbean International's Oasis of the Seas
uses the Marinestar® manoeuvring system
to assist with berthing.

Specifications subject to change without further notice

Fugro Satellite Positioning B.V.

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