

Fugro Launches G4 Satellite Positioning Augmentation Service

Fugro has further extended its technology leadership in the field of GNSS augmentation systems for offshore positioning applications with the launch of its G4 service. The satellite correction service is the first to take advantage of all four global navigation satellite systems (GNSS): GPS, GLONASS, BeiDou and Galileo. GNSS augmentation services improve position accuracy compared with unaided GNSS receivers.

By using all available GNSS satellites, Fugro's G4 service is designed to improve availability and reliability of offshore positioning and will thus enhance the safety and productivity of a wide range of survey and other activities offshore. G4 represents an advancement compared to augmentation systems which are based on GPS only or GPS combined with its Russian equivalent, GLONASS.

The BeiDou system operated by China currently provides coverage in the Asia-Pacific region. Fugro's G4 service already utilises the first BeiDou satellites and is ready to start using the Galileo satellites as soon the EU announces Initial Operational Capability (IOC) status for this system. Galileo and future BeiDou satellites will be automatically included as they come online, steadily increasing availability and robustness of this integrated augmentation service.

The new G4 service will be particularly beneficial when the line-of-sight to certain satellites is obstructed by offshore structures - a key consideration during critical positioning operations. The G4 augmentation signals, transmitted via seven high-powered communication satellites to provide at least two independent broadcast channels anywhere in the world, will offer Fugro's customers unrivalled coverage and availability.

<https://www.hydro-international.com/content/news/fugro-launches-g4-satellite-positioning-augmentation-service-2>
