

**For Immediate Release**

## **Hemisphere GNSS Announces New Atlas®- and RTK-Capable Vector™ V500 GNSS Compass Smart Antenna**

**LONDON, UK – March 13, 2018** – Today from the Oceanology International exhibition and conference in London, UK, Hemisphere GNSS announces the top-of-the-line, RTK-enabled Vector V500 smart antenna. The V500 supports multi-frequency GPS, GLONASS, BeiDou, Galileo, QZSS, and IRNSS (with future firmware upgrade and activation) for simultaneous satellite tracking. The V500 is powered by Hemisphere's innovative and industry-leading Athena™ RTK engine and is Atlas L-band capable.

Using Hemisphere's Eclipse™ Vector technology, the all-in-one V500 is a complete compass system that offers GNSS-based heading, pitch, roll, heave, and RTK positioning. The V500 introduces support for Ethernet, Bluetooth, and Wi-Fi in addition to NMEA 0183 and NMEA 2000 and offers unmatched ease of installation. Purpose-built for challenging applications, the V500's rugged enclosure works reliably in harsh environments and is ideal for professional marine applications requiring high-precision heading combined with RTK or Atlas positioning.

The V500 is Hemisphere's flagship rugged smart antenna, which combines the recently announced Eclipse Vector H328 OEM board with two superior multipath- and noise-rejecting antennas (spaced 50 cm apart) in a single enclosure. Requiring only a single power/data cable connection, this allows for fast and reliable installations, even in the presence of strong radio transmissions. The V500 delivers 0.17 degree heading accuracy along with RTK positioning and Atlas L-band accuracies of up to 8 cm (95%)\*, providing class-leading accuracy.

"The Vector V500 combines our expertise in GNSS, smart antenna design, and our new technology features such as Atlas," states Lyle Geck, Senior Product Manager at Hemisphere GNSS. "With very competitive RTK performance and the simplicity of installation offered by the all-in-one smart antenna design, it is an incredible product."

### **Atlas GNSS Global Correction Service**

Atlas is a flexible, scalable, and industry-leading GNSS-based global L-band correction service providing robust performance and correction data for GPS, GLONASS, and BeiDou, at market-leading prices. Atlas delivers correction signals via L-band satellites to provide accuracies ranging from sub-meter to sub-decimeter levels, and leverages approximately 200 reference stations worldwide, providing coverage to virtually the entire globe.

Atlas is available on all Hemisphere Atlas-capable single- and multi-frequency, multi-GNSS hardware and complements third-party GNSS receivers by using Atlas corrections with Hemisphere's innovative SmartLink™ and BaseLink™ capabilities. When using multi-frequency hardware, Atlas corrects more satellites than ever before, to create faster convergence times, and is robust and reliable near wharfs, piers, offshore rigs, cranes, and other overhead obstructions. Atlas Basic provides users of both single- and multi-frequency Atlas-capable hardware the ability to achieve better than SBAS performance anywhere in the world where the Atlas correction service is available. Atlas Basic is a groundbreaking new feature that offers a proven accuracy of 30 cm (pass-to-pass 95%)\* to 50 cm (absolute 95%)\* and offers instantaneous sub-meter accuracy.

## Atlas Service Levels:

<b>Service Level</b>	<b>Position Accuracy</b>
<b>Atlas Basic</b>	50 cm 95% (30 cm <sup>RMS</sup> )*
<b>H30</b>	30 cm 95% (15 cm <sup>RMS</sup> )*
<b>H10</b>	8 cm 95% (4 cm <sup>RMS</sup> )*

\* Based on 15-minutes convergence time. Also depends on multipath environment, number of satellites in view, satellite geometry, and ionospheric activity.

The Vector V500 is featured in the Hemisphere GNSS booth (G500) at the Oceanology International exhibition and conference in London, UK from March 13 – 15, 2018. The new V500 will be available soon through Hemisphere's global dealer network. For more information about Hemisphere's Vector line or other Marine products, solutions, and technologies, please visit [www.HGNSS.com](http://www.HGNSS.com).

## About Hemisphere GNSS

Hemisphere GNSS is an innovative technology company that designs and manufactures high-precision positioning products and services for use in OEM/ODM, marine, machine control & guidance, agriculture, and L-band correction service markets. Hemisphere holds numerous patents and other intellectual property and sells globally with several leading product and technology brands including Athena™, Atlas®, Crescent®, Eclipse™, and Vector™ for high-precision applications. Hemisphere is based in Scottsdale, AZ, USA, with offices located around the globe, and is part of Beijing UniStrong Science & Technology Co., Ltd.

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