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Trimble and PTx Trimble Expand Innovative Technology to Maintain Precision and Continuous Operations in the Agriculture Industry

IonoGuard improves RTK GNSS positioning performance during solar storm events



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WESTMINSTER, Colo., March 20, 2025 — Trimble and PTx Trimble announced today the availability of Trimble IonoGuard™ for the precision agriculture industry. IonoGuard is a next-generation technology engineered to enhance RTK GNSS signal tracking and hardware positioning performance. IonoGuard helps ensure more reliable and accurate positioning by reducing the risk of signal loss and maintaining signal integrity during challenging ionospheric conditions.

Every 11 years, solar activity peaks, causing ionospheric disturbances such as scintillation and signal noise that can result in unreliable positioning. Solar Cycle 25, which began in 2024 and is expected to last through 2026, could pose significant challenges with the potential for global disruptions. While solar cycle disturbances are a phenomena noticed by few in most occurrences, high-precision RTK GNSS users in equatorial regions are regularly impacted by solar activity year-round, inflicting costly interruptions on agricultural operations.

Customer Testing and Validation

“There was no question when asked if we wanted to test IonoGuard,” said Michael Munro, General Manager, Sales and Marketing of Vantage Australia. “Knowing we can better weather the next major solar storm with less risk for signal loss and improved signal availability and precision during such a disturbance provides peace of mind knowing we can still get the work done.”

“The solar storm experienced in May 2024 put IonoGuard to the test and, based on feedback from our beta testers like Vantage Australia, demonstrated the value of this technology to enable uninterrupted work in the midst of significant solar activity,” said Andrew Sunderman, Vice President, Product & Customer Experience at PTx Trimble. “When a solar storm hits, work might be stopped due to signal loss, resulting in downtime, increased labor costs and potentially wasted inputs during planting and spraying. We’re extremely proud to offer a solution that truly minimizes this risk by decreasing downtime, reducing costs for the farmer and keeping the agriculture industry up and running all day, every day.”

Availability

Trimble IonoGuard is available on the PTx Trimble NAV-900™ guidance controller via the latest PTx Trimble Precision-IQ firmware release and Trimble base stations that support the ProPoint GNSS positioning engine, sold and distributed by PTx Trimble. When combined, users can achieve maximum RTK performance. To learn more about IonoGuard, visit https://ptxtrimble.com.

About Trimble

Trimble is transforming the ways people move, build and live. Core technologies in positioning, modeling and data analytics connect the digital and physical worlds to improve our customers' productivity, quality, safety, transparency and sustainability. For more information about Trimble (Nasdaq: TRMB), visit: www.trimble.com.

About PTx Trimble

PTx Trimble provides precision agriculture solutions for every season. A joint venture between AGCO and Trimble, PTx Trimble continues to advance the future of farming by building farmer first solutions for land preparation, planting, water management, crop protection, nutrient management and harvesting. We are the leader in mixed fleet, smart farming and autonomy solutions. To learn more, visit https://ptxtrimble.com.

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