

ECHO 81

YOUR SUBSEA SOLUTIONS SPECIALIST

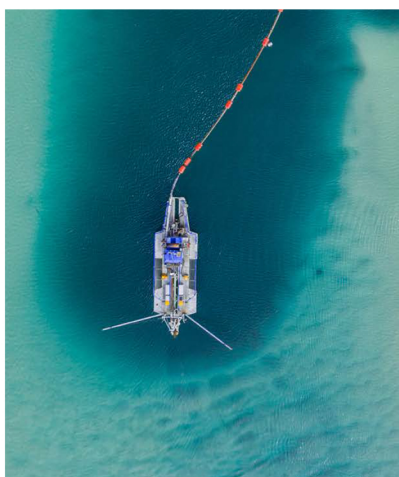
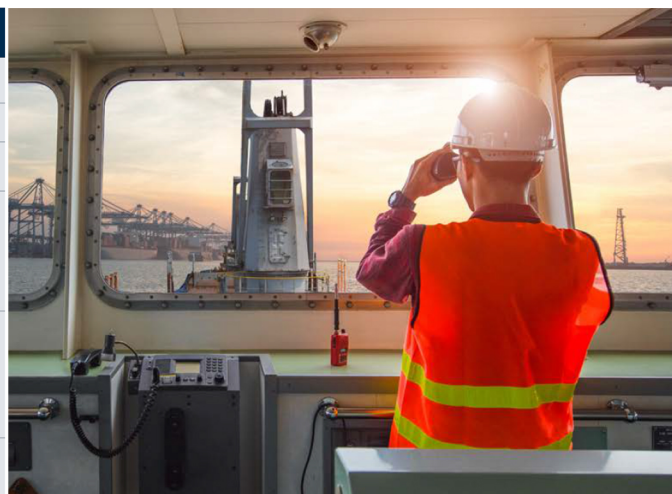
Trimble **CenterPoint RTX Marine**

PRECISE POINT POSITIONING
REAL-TIME GNSS CORRECTION SERVICE

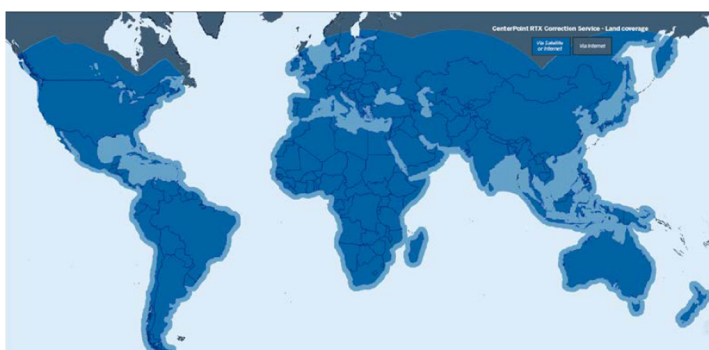
CenterPoint RTX® Marine is a real-time GNSS correction service using an absolute positioning technique to model and correct GNSS error sources and deliver centimeter-level accuracy via Satellite or the Internet. CenterPoint RTX Marine gives the precision you need in marine survey and construction applications with trusted reliability, worldwide.

KEY SPECIFICATIONS:

RANGE	Regional coverage: available up to 100 Nautical Miles from continental coastlines (< 200 kilometers) Global coverage: available beyond 100 Nautical Miles from continental coastlines (> 200 kilometers)
ACCURACY	< 2 cm Horizontal RMS and < 5 cm Vertical RMS
DELIVERY	Redundancy with corrections delivered via Satellite or Internet AES Encryption for anti-spoofing protection
CONSTELLATIONS	GPS: L1C/A, L2E, L2C, L5 Galileo: E1, E5 (E5A/B/C, E5A, E5B) GLONASS: L1C/A, L2C/A E6 BeiDou-II: B1I, B2I, B3 BeiDou-III: B1C, B2A, B3, B1I QZSS: L1C/A, L2C, L5
COMPATIBLE DEVICES	Trimble Integrated Receivers: R780 Trimble Modular Receivers: R750, MPS865, SPS855, BX992, Next Gen MPS566 Applix Modular Receivers: POS MV Hardware (BD992, BD982) Recommended Antennas for modular receiver: Rugged Zephyr 3, 540 AP, GA830 Trimble Marine Construction Applanix PosPac MMS
CONVERGENCE TIME	Trimble RTX Fast regions: < 1 minute (throughout North America and Europe) Worldwide: Trimble ProPoint receivers < 3 minutes / Legacy receivers < 15 minutes



Trimble CenterPoint RTX Satellite Correction Services - Expanded Marine Coverage



Regional Coverage

Available up to
100 Nautical Miles from
a continental coastline

Global Coverage

Available beyond
100 Nautical Miles from
a continental coastline
(Accuracy will vary)

CenterPoint RTX Marine Correction Service



Delivering better precision

CenterPoint RTX Marine delivers high accuracy in real-time and sets new market-leading Precise Point Positioning corrections standards for the maritime industry. Delivered worldwide, it also features the fastest global convergence.

Accelerating your operations

Satellite-delivered to simplify your workflow, lower your operating cost and accelerate your operations: CenterPoint RTX Marine allows you to cover large geographic areas with better efficiency and enables true mobility when your project demands it. CenterPoint RTX can eliminate significant logistics and troubleshooting time in the field as well as the daily setup and teardown time when using a base station.

Expanding your alternatives

CenterPoint RTX Marine complements your RTK solutions and allows you to expand your GNSS corrections solution options and choose the configuration that suits your needs, type of work, or project-specific challenges: base-rover RTK setup, rover only within RTK-network footprint, or rover only with CenterPoint RTX Marine service - anywhere and anytime.

Easy and cost-effective

As a subscription-based service, CenterPoint RTX Marine is easy to use and features an easy learning curve. This means a small operating expense which can be included in the cost of the project.

One Trimble solution

CenterPoint RTX Marine service is a mainstay of the full Trimble solution for the Marine industry, designed to work seamlessly with Trimble hardware and software to simplify your purchase decisions and reduce complexity in acquiring the required gear and accessing customer care.

Trimble hardware, software and correction service are anchored together in their combined strengths to boost your on-site productivity.

Ensuring your productivity

CenterPoint RTX Marine correction service is utilizing all the modern GNSS constellations. Having more available satellites will keep you reliably on point in challenging GNSS environments or when suffering from ionospheric scintillation. With a global reference network and advanced technology, CenterPoint RTX corrections are not dependent on any single base station being up and running. You can work without interruptions no matter what the status of local RTK hardware, cellular or radio networks is.

FULL REDUNDANCY

Trimble operates redundant network operations centers with around-the-clock monitoring and maintenance of the CenterPoint RTX correction service. Additionally, a global network of reference stations upload real-time GNSS observable data to the operation centers, which process the data, create corrections, and transmit the data through separate upload satellite links to the geostationary Trimble RTX satellites.

Throughout the world, many areas have coverage from more than one geostationary Trimble RTX satellite, and cloud servers provide the CenterPoint RTX correction stream via the Internet—including both Fast/Regional models for North America and Europe, as well as Global model corrections as a redundant correction source.



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