PRODUCT

TIDEWATCH 2.4 — Product Brochure

Coastal, port and inland water monitoring, with explicit navigation-use disclaimer.

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This document is fictional and forms part of a training environment.

Terravek TIDEWATCH

Coastal and inland water, measured continuously.

Coastlines move. Channels silt up. Storm surge arrives faster than a survey vessel can be mobilised. TIDEWATCH combines satellite-derived bathymetry, shoreline extraction, in-situ FIELDKIT gauges and harmonic tide models into a continuously updated picture of a water body.

For port authorities the immediate value is dredging: knowing which berths are approaching declared depth before a vessel is turned away. For water boards it is storm-surge forecasting and dyke deformation. The Zeeland Water Board early warning service built on TIDEWATCH won the 2025 Geospatial Impact Award.

TIDEWATCH is the product Terravek is most careful about. Satellite-derived bathymetry is not a hydrographic survey and the product documentation says so in the first paragraph.

Capabilities

Capability	Detail
Satellite-derived bathymetry	Optical inversion to 20 m depth in clear water, with per-cell uncertainty.
Shoreline change	Sub-pixel waterline extraction with tide-stage normalisation.
Sediment plume tracking	Turbidity and suspended-sediment indices from multispectral sources.
Berth occupancy	Vessel presence and dwell time by berth, from optical and SAR.
Storm-surge alerting	Threshold alerts combining forecast surge, observed gauge data and dyke condition.
FIELDKIT integration	In-situ tide, turbidity and salinity nodes feed the same model.

Editions

Edition	Description
TIDEWATCH Port	Berth occupancy, channel depth trending and dredging prioritisation.
TIDEWATCH Coast	Shoreline change, dune and dyke monitoring, storm-surge alerting.
TIDEWATCH Inland	Reservoir, lake and river monitoring including water quality indices.

Specifications

Specification	Value
Bathymetry depth range	0–20 m (clear water), 0–8 m (turbid)
Bathymetry uncertainty	±0.4 m typical, reported per cell
Shoreline accuracy	±2.5 m at 10 m source resolution
Revisit	Daily to weekly depending on constellation and cloud
Alert latency	Under 25 minutes from downlink for storm-surge thresholds
Tide models	Open harmonic models published at github.com/terravek/tidewatch-tide-models

Stated limitations

Terravek states product limitations in the brochure rather than in a footnote during procurement. The sales cycle is eleven months and the truth surfaces anyway.

- Satellite-derived bathymetry is not a substitute for an IHO-compliant hydrographic survey and must not be used for navigation.
- Turbid and tannin-stained water reduces achievable depth substantially; the product reports the achieved depth rather than assuming the nominal one.
- Berth occupancy under persistent cloud falls back to SAR, which does not distinguish vessel class as reliably.

How to buy

Sales	sales@terravek.com · +31 15 251 8400
Partners	partners@terravek.com — see terravek.com/partners/
Documentation	https://docs.terravek.com/tidewatch/2.4/
Support	support@terravek.com · service levels at terravek.com/services/support.html
Evaluate free	ATLAS Sandbox tier — atlas.terravek.com, no commercial conversation required