

# BVS 8 Enhancements

1. Higher resolution wind and wave data. This data will provide better simulation and optimization results, especially near land. BVS8's HYCOM currents also include tidal effects through a StormGeo post-model process.
2. Broadband data delivery—system can be set up to deliver the data via ship's broadband communications links and will fall back to the email solution automatically when broadband communications are not available. Gives user immediate access to more detailed and frequent data updates.
3. Detailed port vicinity forecasts. Forecasts are 3-days in length and 6-hour time steps. Data includes precipitation amount, temperature, humidity, visibility, and wind conditions. Also provides seas and wind conditions at the pilot station.
4. Optimization—improved mesh, optimization algorithm, navigation schemes, route smoothing, fuel consumption consideration, etc.
5. Ship-specific speed down and consumption curves. The speed down curves can be modified by the user. StormGeo has used over 2,500,000 noon reports to evaluate consumption and speed down curves based on ship types. And for those vessels with sufficient reports the curves can be ship specific.
6. Pirate attack information—BVS displays all attack information reported to the IMB along with corresponding NATO reports.
7. Rogue wave forecast—72 hour forecast of the areas where a freak wave is more likely to occur due to waves opposing a strong current.
8. Other new parameters, including humidity and seas.
9. Capability to insert via ports with layover times (bunker ports or multiple load or discharge ports).

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## 8 Reasons Masters Rely on BVS

