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MERSEA : The MERSEA ocean monitoring system is envisioned as an operational network that systematically acquires data (earth observation from satellites, in situ from ocean observing networks, and surface forcing fields from numerical weather prediction agencies). These data from diverse sources are combined and merged with numerical ocean circulation models (i.e. assimilated) to produce best estimates of the actual state of the ocean (nowcasts) and forecasts. That information is then disseminated to enable various users to develop specific applications. The project itself has identified areas of Special Focus Experiments on seasonal weather forecasting, and on ecosystem modelling in regional and shelf seas. Specific applications on marine safety concern improved wave forecasts, offshore operations, ship routing, and oil spill drift.

MARINE ENVIRONMENT AND SECURITY FOR THE
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