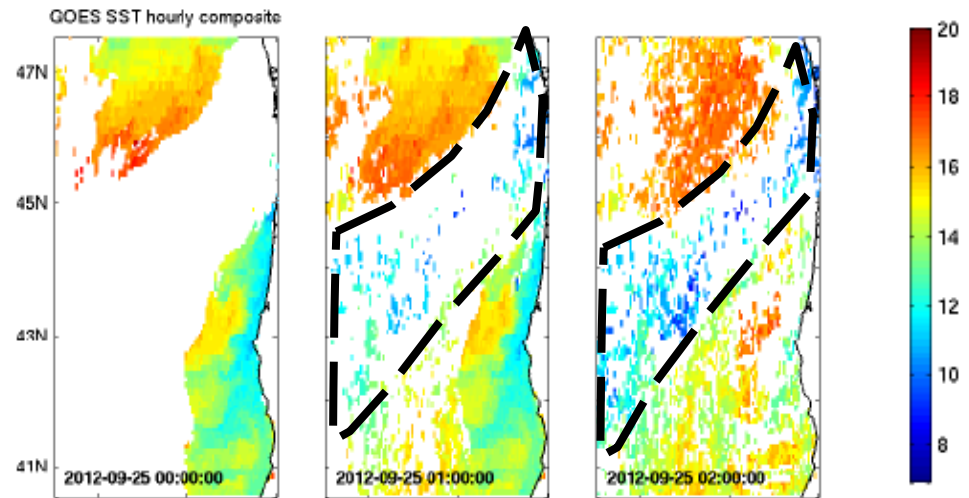


Improved quality control of GOES SST for assimilation in a coastal ocean forecast model



Surface velocity forecasts have been constrained by assimilation of GOES SST with an improved cloud mask that removes noise associated with low clouds.

In three consecutive hourly GOES SST images off Oregon (Sept. 25 2012, 00-02 hrs UTC), areas bounded by the dashed lines are erroneously cold and must be removed before assimilation into the ocean model (e.g. using the mask from the earlier hour).



Improved quality control of the data combined with the ocean forecast model leads to improved forecasts of coastal ocean conditions, including SST front locations and surface currents, providing critical information in support of fisheries, safe navigation, and environmental hazard response.

www.nanoos.org, <http://ingria.coas.oregonstate.edu>

(Courtesy of A. Kurapov)

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