Japan Geoscience Union Meeting 2011
(May 22-27 2011 at Makuhari, Chiba, Japan)

ACG032-P01 Room:Convention Hall Time:May 27 16:15-18:45

JAMSTEC Climate Observation and Synthesis

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The spation-temporal coerage of hydrographic data is still sparse. To obtain more accurate/dense estimation of the global ocean, 4-dimensional variational (4D-VAR) data assimilation system has been developed which is capable of providing an optimal synthesis of the obseravational data and a climate model by solving a nonlinear least square problem. The obtained dynamically self-consistent 4-dimensional dateset can offer greater infomation content on ocean climate changes than can be derived from models or data alone.

Keywords: ocean, climate change, data assimilation, four-dimensional variational method