

Figure 5B.4. Same as Fig. 5B.1 except for a period between April 21 and April 30.



Figure 5B.5. Same as Fig. 5B.1 except for a period between May 1 and May 10.



Figure 5B.6. Same as Fig. 5B.1 except for a period between May 11 and May 20.



Figure 5B.7. Same as Fig. 5B.1 except for a period between May 21 and May 30.



Figure 5B.8: Same as Fig. 5B.1 except for a period between May 31 and June 9.



Figure 5B.9. Same as Fig. 5B.1 except for a period between June 10 and June 19.



Figure 5B.10. Same as Fig. 5B.1 except for a period between June 20 and June 29.

## 5B.2. 10-day averaged maps of the surface velocity fields

The surface horizontal velocity fields are obtained from the velocity data at the upper most level of each model.



Figure 5B.11. Horizontal distribution of the surface velocity fields averaged over a 10-day period from March 22 to 31, 2011, and simulated in each model; the model name appears above each panel. No velocity data are provided from the IRSN, and the WHOI-2D has a course resolution based on the observed sea-surface height data with the geostrophic calculation. Other results are based on high-resolution ocean models. Note that the GEOMAR is forced by the ECMWF fluxes from 1993, which yields oceanic conditions similar to those that were actually encountered (Dietze and Kriest, 2012).