P26. SURFACE GPS-DRIFTERS FOR STUDY COASTAL WATER DYNAMICS IN THE BLACK SEA.

RESULTS AND EXPERIENCE FROM 2013 TO 2015 YEAR.

Ksenia Silvestrova¹, Stanislav Myslenkov², Andrey Zatsepin¹, VladimirBaranov^{1,3}

¹Shirshov Institute of Oceanology RAS, ²Lomonosov Moscow State University, Faculty of Geography, Oceanology department, ³South Branch, Russia **ksenia.ocean@yandex.ru**

This work presents the description and results of drifter experiments which were held in coastal zone of the Black Sea every summer and sometimes in autumn since 2013. Surface GSM/GPS drifters were used for observation coastal currents with spatial resolution 100–200 m and temporal variability from 5-10 minutes. Some parameters of submesoscale eddies was described due to experiments. An optional battery pack allowed to extent autonomy to 19 days (one of the drifters covered a distance of ~ 300 km).The results of experiments include a comparison of the drifter trajectories with bottom-tracked ADCP and moored ADCP data. The speed and direction of current velocity from the ADCP data coincide with the data from drifters. We demonstrate that using drifter data for analysis of water dynamics gives a more comprehensive pattern of actual processes in comparison to using the ADCP data alone.