O86. SATELLITE DATA FOR INVESTIGATION OF RECENT STATE AND PROCESSES IN THE SIVASH BAY

Ekaterina Shchurova¹, Rimma Stanichnaya¹, Sergey Stanichny¹

¹FSBSI MHI, Russia
shchurova88@gmail.com

Sivash bay is the shallow-water lagoon of the Azov Sea. Restricted water exchange and high evaporation form Sivash as the basin with very high salinity. This factor leads to different from the Azov Sea thermal and ice regimes of Sivash. Main aim of the study presented to investigate recent state and changes of the characteristics and processes in the basin using satellite data. Landsat scanners TM, ETM+, OLI, TIRS together with MODIS and AVHRR were used. Additionally NOMADS NOAA and MERRA meteorological data were analyzed. The next topics are discussed in the work:
1. Changes of the sea surface temperature, ice regime and relation with salinity.
2. Coastal line transformation – long term and seasonal, wind impact.
3. Manifestation of the Azov waters intrusions through the Arabat spit, preferable wind conditions.