HYDROMETCENTRE OF RUSSIA

SOCIO-ECONOMIC BENEFITS OF
METEOROLOGICAL AND HYDROLOGICAL SERVICES

INVENTORY OF DECISION SUPPORT TOOLS

ITEM	DESCRIPTION
Sector	Marine forecasts
Sub-sector	Sea level forecasts
Tool Name	Short-term sea level and current forecast for the Caspian Sea
Tool Description	Forecast products for the Caspian Sea include fields of surface wind, sea level, currents, flooded areas.
Weather, Climate or Water inputs	The forecast of the sea level pressure, Volga river daily run-off, ice conditions
Specific weather, climate, water data required	The forecast of the sea level pressure, Volga river daily run-off, ice conditions
Spatial resolution	The spatial step of the sea level pressure forecast is 75 km
Temporal resolution	The sea level pressure fields are produced twice a day for 48 hours ahead with the discontinuity of 6 hours.
Delivery methodology	Forecast pressure fields from operational numerical atmospheric model
Frequency of data requirement	6 hours
Other	The bottom relief of the sea
Detailed Tool Description	The fields of surface wind, sea level, currents, flooded areas.
Spatial resolution	The computational grid covers the whole Caspian Sea and adjacent near-shore areas with the mesh size of 3 nautical miles and has 126×216 knots and 19 horizons in vertical.
Temporal resolution	The forecast fields are produced twice a day for 48 hours ahead with the discontinuity of 6 hours.
Delivery methodology	WEB-site of Russia Hydrometeorological Centre
Frequency of provision	Twice a day
Other	Other relevant information as required
Benefits of tool application	Warnings for authorities about storm surges
Possible future advances	The version of the model of oil spill movements and oil parameter changing in case of oil outflows (location, concentration) on the Caspian Sea area.
Comments	Option for additional comments

URL	