

**LIST OF DETERMINIST AND ENSEMBLE NWP PRODUCTS TO BE MADE AVAILABLE FOR  
SWFDP-CENTRAL ASIA BY GLOBAL CENTRES**

**(a) Deterministic NWP Products to be made available by Global Centres**

(All product is provided every 6-hourly out to 72 hours including Analysis)

Parameters	RosHydromet	ECMWF	CMA	JMA	KMA
Total accumulated precipitation (including snow) every 6 hours and 12 hours				YES	
Surface (2m) temperature, dew point temperature and relative humidity				YES (not dew point)	
Maximum and minimum temperatures				YES	
10 meters wind (speed and direction)				YES	
Mean sea level pressure (MSLP)				YES	
Parameters: wind (streamlines and speed/direction), temperature, geopotential height, humidity Levels: 925mb, 850mb, 700mb, 500mb, 300mb, 250mb, 200mb				YES	
Parameter: vertical velocity Level: 850mb, 700mb, 500mb				YES	
Parameter: 1000-500mb Thickness				YES	
Stability parameters and indices: Lifted index, K index, total totals index, CAPE, CIN, Showalter index				K index, CAPE, CIN	
SKEW-T logarithmic forecast plots for selected grid points based on NWP output (out to 144 hours, 12-hourly)				NO	

**(b) Ensemble NWP Products to be made available by Global Centres**

(All product is provided every 6-hourly out to 144 hours including Analysis)

Parameters	RosHydromet	ECMWF	CMA	JMA	KMA
Probability of 12-hour accumulated precipitation exceeding 10mm, 20mm, 30mm and 50mm threshold value				YES	
Probability of 24-hour accumulated precipitation exceeding 20mm, 30mm and 50mm threshold value				YES	
Probability of surface (10m) wind speed exceeding 10m/s, 15m/s and 25m/s threshold value				YES	
Ensemble Prediction System meteograms for selected locations				YES	
Spaghetti diagrams and ensemble means for MSLP, 850mb and 500mb geopotential height (values for isopleths Z500: 516, 552, 576				YES	

gpm; and for T850: -15, 0, 15 degrees C)					
Thumbnails of probability of precipitation in excess of threshold of 20mm, 30mm and 50mm/6h at 6 hours intervals or more				YES	
Thumbnails of probability of minimum temperature less than threshold of 0, -10 and -20 degree Celsius				YES	
Thumbnails of probability of maximum temperature greater than threshold of 30 and 40 degree				YES	
Extreme Forecast Index and Shift of Tails, and M-Climate for TMean, Tmax, Tmin, wind gust, wind speed, total precipitation, total snowfall				NO	
ENS Cumulative Distribution Functions (Forecast and M-Climate) and EFI values (for precipitation, temperature and wind gust)				NO	
ECMWF monthly forecast				NO	
<b>Other Requested Products</b>					
Significant wave height in Caspian Sea, and mean wave direction and mean wave period				x	
Sea waves exceeding given thresholds (2m; 4m; 6m; and 8m) for Caspian Sea				x	