

ECMWF extends product sets available to WMO NMHS's

ECMWF has extended the data sets of HRES and ENS products it makes available to WMO NMHS's.

The new products for the HRES parameters are highlighted in Table 1 and Table 2 and those for the ENS parameters are summarized in Table 3.

Products have been made available via ECMWF's DCPC. Information on how to access the products is available at:

<https://www.ecmwf.int/en/forecasts/datasets/wmo-and-acmad-datasets>

Full description of the new products is available at:

<https://www.ecmwf.int/en/forecasts/datasets/wmo-additional>

Table 1 Products made available to WMO NMHS's based on HRES. New products are highlighted in red. WMO NMHS's from Region I will find ACMAD specific products, previously available for the ACMAD domain, are now available with a Global domain via DCPC interface.

BASED on HRES		
Fields	Parameter	Level
	Geopotential height	850/500/250
	Temperature	850/500/250
	u,v	925/850/700/500/250/200
	Relative humidity	850/700
	Divergence, vorticity	925/700/250
	MSL pressure	Surface
	2m Temp, 10m u, 10m v Total precipitation	Surface
Resolution	0.5° x 0.5°	
Forecast range and time steps	Up to day 7 every 6h	
Frequency of production	Produced twice a day (00 and 12 UTC)	
Domain	Global	

Table 2: Products made available to WMO NMHS's based on HRES wave model. New products are highlighted in red.

Based on HRES wave parameters		
Fields	Parameter	Level
	Significant height of combined wind waves and swell, Mean wave period, Mean wave direction	Surface
	Peak wave period and Mean zero-crossing wave period	Surface
Resolution	0.5° x 0.5°	
Forecast range and time	Up to day 3 every 3h, beyond day 3 every 6h	
Frequency	Produced twice a day (00 and 12 UTC)	
Domain	Global	

Table 3: Products based on ENS. New products are highlighted in red. Products marked with * have not been released yet.

Requirements			
Fields	Parameter	Level	Thresholds
	Probability of Precipitation	Surface	1, 5, 10, 20, 25*, 50* mm and 100* mm/24 hours
	Probability of 10 m sustained wind and gusts		10*, 15 and 25 m s ⁻¹
	Probability of significant wave height		> 2/4/6/8 m
	Probability of Temperature anomalies *	850	± 1, ± 1.5, ± 2 standard deviations with respect to a reanalysis climatology specified by the producing Centre
	Ensemble mean + spread (standard deviation) of Geopotential height	500	
	Ensemble mean + spread (standard deviation) of MSL pressure	Surface	
	Ensemble mean + spread (standard deviation) of Wind speed and Temperature	850/250*	
	Resolution	0.5	
Forecast range and time steps	Up to day ten every 12h		
Frequency of production	Produced twice a day (00 and 12 UTC)		
Domain	Global		