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ECMWF Product Development

Monday, 1 June 2020 14:15 (20 minutes)

The presentation will review forecast product development activities at ECMWF over the past year, in response to user requests and feedback.

New forecast outputs introduced over the last year include a new Extreme Forecast Index (EFI) to highlight the large-scale water vapour transport in the atmosphere, as well as products relating to large-scale weather regimes and extremes in the extended range.

The next model upgrade will introduce several new forecast output fields, including revisions to convective inhibition (CIN) and EFI products for severe convection (CAPE and CAPE-shear). Additions to our tropical cyclone (TC) products will introduce metrics of TC “size” to supplement the existing forecasts of TC track and intensity. These new “wind radii” use mean 10m wind thresholds of 18, 26 and 32 m/s (34, 50 and 64 knots) to denote the furthest distance away from the centre of the TC at which each of the wind speed thresholds are exceeded.

Updates to the ECMWF web charts and to the interactive ecCharts system will also be presented.

Primary author: RICHARDSON, David (ECMWF)

Presenter: RICHARDSON, David (ECMWF)

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