



Contribution ID: 64

Type: **Oral presentation**

ECMWF research: near and distant future plans

Tuesday, 4 June 2019 15:45 (30 minutes)

The talk will highlight what steps have been taken to 'develop an integrated global model of the Earth system to produce forecasts with increasing fidelity on time ranges up to one year ahead. This will tackle the most difficult problems in numerical weather prediction such as the currently low level of predictive skill of European weather for a month ahead,' three years on since the approval of the 2016-2025 ECMWF strategy. The research behind the key changes introduced in the IFS model cycle 46r1 (which will be operational on the 11th June 2019) and the current plans for model cycle 47r1 and beyond will be highlighted.

Moreover, the relevance of Machine Learning on both operational workflow and research activities at ECMWF will be briefly discussed, as part of the more distant future directions of work.

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Session Classification: Afternoon session - Chair: Ivan Tsonevsky

Track Classification: UEF2019