

# UEF2021 Lightning Talk: Learning Resources at ECMWF

Wednesday 2 June 2021

Becky Hemingway and Esperanza Cuartero

User Outreach and Engagement Team



# Public Page: An Introduction

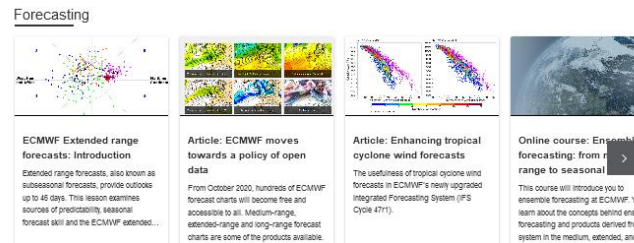
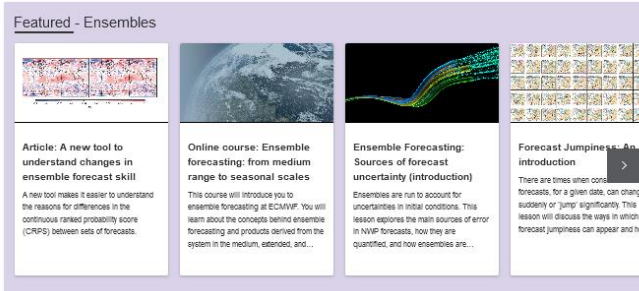


A place where users find all the learning resources that ECMWF offer

Browse the content without

Log in

Signposting the info available and guiding the users through their learning paths  
Not duplicating content



<https://learning.ecmwf.int/web/guest/public-channel/>

users



The Public Page is part of the ECMWF Learning portal

Type of content

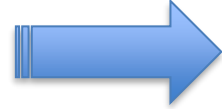


- e-learning Lessons
- Online courses that take place remotely
- Training courses: face-to-face
- Articles: Published on ECMWF main website
- Webinars: past and upcoming workshops
- Events: E.g. UEF

# Themes



is **USEFUL**

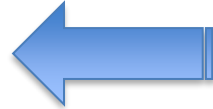
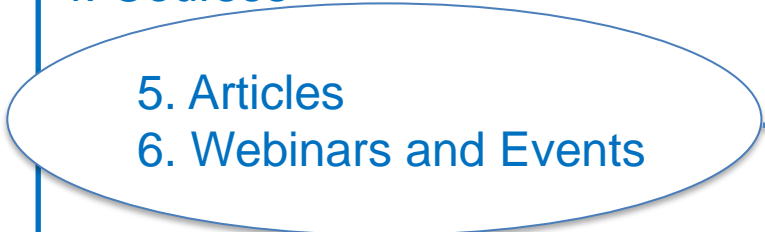


The content is categorized into **3** themes:

- Forecasting
- Research
- Data, Software and Computing

The content is grouped in **7** sections:

1. Forecasting
2. Research
3. Data, Software and Computing
4. Courses
5. Articles
6. Webinars and Events
7. Featured



is **FRESH**

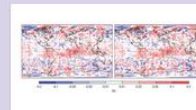
The latest news, blogs, expertise, advances, talks and approaches on a topic that support the learning experience



is **DYNAMIC**



## Featured - Ensembles



### Article: A new tool to understand changes in ensemble forecast skill

A new tool makes it easier to understand the reasons for differences in the continuous ranked probability score (CRPS) between sets of forecasts.



### Online course: Ensemble forecasting: from medium range to seasonal scales

This course will introduce you to ensemble forecasting at ECMWF. You will learn about the concepts behind ensemble forecasting and products derived from the system in the medium, extended, and seasonal ranges.



### Ensemble Forecasting: Sources of forecast uncertainty (introduction)

Ensembles are run to account for uncertainties in initial conditions. This lesson explores the main sources of error in NWP forecasts, how they are quantified, and how ensembles are evaluated and...



### Forecast Jumpiness: introduction

There are times when consecutive forecasts for a given date, can change suddenly or 'jump' significantly. This lesson will discuss the ways in which forecast jumpiness can appear and how it can be mitigated.

# Featured

ECMWF Learning

Each month 4 new items will be chosen for the 'Featured section'

**Featured - Ensembles**

- Article: A new tool to understand changes in ensemble forecast skill**  
A new tool makes it easier to understand the reasons for differences in the continuous ranked probability score (CRPS) between sets of forecasts.
- Online course: Ensemble forecasting: from medium range to seasonal scales**  
This course will introduce you to ensemble forecasting at ECMWF. You will learn about the concepts behind ensemble forecasting and products derived from the system in the medium, extended, and seasonal ranges.
- Ensemble Forecasting: Sources of forecast uncertainty (introduction)**  
Ensembles are run to account for uncertainties in initial conditions. This lesson explores the main sources of error in NWP forecasts, how they are quantified, and how ensembles are evaluated and communicated.
- Forecast Jumpiness: An introduction**  
There are times when consecutive forecasts, for a given date, can change suddenly or 'jump' significantly. This lesson will discuss the ways in which forecast jumpiness can appear and how it can be mitigated.

- Those chosen items will be themed based on time of year, what's coming up, what's in the news...
- They will be a mixture of lessons, courses, articles, webinars, events
- Aims is to keep the page fresh and to highlight different content to users



#Ensembles are used in #meteorology to account for uncertainties in starting conditions which feed into computer model forecasting.

Learn about ensembles with @ECMWF's 'Ensemble Forecasting: sources of uncertainty' e-learning:  
<https://learning.ecmwf.int/en-US/web/guest/public-channel>

#Learningofthemoth

Accompanied by tweets



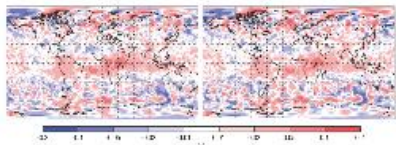
# ECMWF Learning

On this page you can browse learning resources and opportunities available from ECMWF. An ECMWF login is required to access some of the content.

Visit Learning



## Featured - Ensembles



### Article: A new tool to understand changes in ensemble forecast skill

A new tool makes it easier to understand the reasons for differences in the continuous ranked probability score (CRPS) between sets of forecasts.

### Online course: Ensemble forecasting: from medium range to seasonal scales

This course will introduce you to ensemble forecasting at ECMWF. You will learn about the concepts behind ensemble forecasting and products derived from the system in the medium...



### Ensemble Forecasting: Sources of forecast uncertainty (introduction)

Ensembles are run to account for uncertainties in initial conditions. This lesson explores the main sources of error in NWP forecasts, how they are quantified, and how ensembles are...



### Forecast Jumpiness: An introduction

There are times when consecutive forecasts, for a given date, can change suddenly or 'jump' significantly. This lesson will discuss the ways in which forecast jumpiness can appear and...





# Thank you for your attention!

Feedback welcome in the chat or to Becky:  
becky.hemingway@ecmwf.int

Public Page:

<https://learning.ecmwf.int/web/guest/public-channel>



Follow us on



@beckyhemingway9



@EsperanzaCuart1



@ECMWF

#learningofthemoth