

Blended NWP course

Vesa Nietosvaara, FMI

Eumetcal Workshop
ECMWF, 29-31 August 2007

NWP course in brief

- 15 participants
 - Belgium
 - Bulgaria
 - Croatia
 - Germany
 - Ireland
 - Latvia
 - Lithuania
 - Moldova
 - Netherlands
 - Norway
 - Portugal
 - Spain
 - Switzerland
 - 6 resource persons
 - Renate Hagedorn (ECMWF)
 - Erik Hagemark (met.no)
 - Wilfried Jacobs (DWD)
 - Veronika Zwatz-Meise (ZAMG)
 - Jaakko Karppanen (FMI)
 - Vesa Nietosvaara (FMI)
- + Eumetsat generous support**

Course timings in brief

- 22 October – 14 December (8 weeks)
- Weekly online sessions
- One training week in Langen in November

October 2007

	m	t	k	t	p	l	s
40	1	2	3	4	5	6	7
41	8	9	10	11	12	13	14
42	15	16	17	18	19	20	21
43	22	23	24	25	26	27	28
44	29	30	31				

November 2007

	m	t	k	t	p	l	s
44				1	2	3	4
45	5	6	7	8	9	10	11
46	12	13	14	15	16	17	18
47	19	20	21	22	23	24	25
48	26	27	28	29	30		

December 2007

	m	t	k	t	p	l	s
48						1	2
49	3	4	5	6	7	8	9
50	10	11	12	13	14	15	16
51	17	18	19	20	21	22	23
52	24	25	26	27	28	29	30
53	31	1	2	3	4	5	6

Objectives in brief

- After completing the course the forecaster should be able to better..
 - ..monitor NWP models with the observational data.
 - ..identify and understand typical errors in models.
 - ..make decisions how to handle contradicting models.
 - .. be able to retrieve basic NWP data from archives for research purposes.



Topics

- 1) Principles on Numerical Weather Prediction
- 2) Update on NWP models (strengths and weaknesses, typical errors)
- 3) Monitoring NWP performance with observational data
- 4) Handling the situations with contradicting model guidance
- 5) Probabilistic forecasting
- 6) Man-machine mix

Programme outline

- One or two online collaboration sessions weekly
- Outside the sessions topic-relevant reference for reading.
- Specific assignments, either individually or within a small group. An assignment can be ie:
 - Case study work
 - Detailed investigations of a recent model issue
 - NWP model comparisons.
- The results of assignments to be presented in Langen.

Pre-course activities for students

- To identify and discuss with the tutor the greatest needs in NWP and forecasting.
- To identify the research topic, discuss it with the tutor.
- To identify the preferred way of working: alone or with colleagues a group of 2-4.
- To ensure that the necessary time to work with NWP course outside shift work is recognised by the administration.
- To check the technical preparedness.

Technical

- Saba Centra Live
 - Voice over IP, slide presentations & other interactive virtual eMeeting tools all in one.
 - User accounts created last week
- VISITview:
 - Specific meteorological interactions (SATREP Online)
- [Course Website](#)
 - user accounts created last week
- Connection tests and hands-on practice
 - individually with each participant and instructor
 - test dates 20 September, 24 September, 1 October

Risks



Little interest



Participant commitment



Too high ambitions



Instructor resources and commitment



Technical issues

Discussion topics

- Have we missed something important?
- Are the topics relevant?
- Have we ignored some traps in technology?
- How can we involve students?
- How can we help them to feel this is THEIR course?
- How can YOU support us? Come and join NWP WG meeting on Friday!

Thank you

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