

HKO's Operational Forecasting Tools and Guidance

HO Chun-kit
Scientific Officer
Forecast Systems Division

VCP Online Workshop on Development of Products from NWP Models and
EPS for High-Impact Weather Forecasting

December 2020

Content

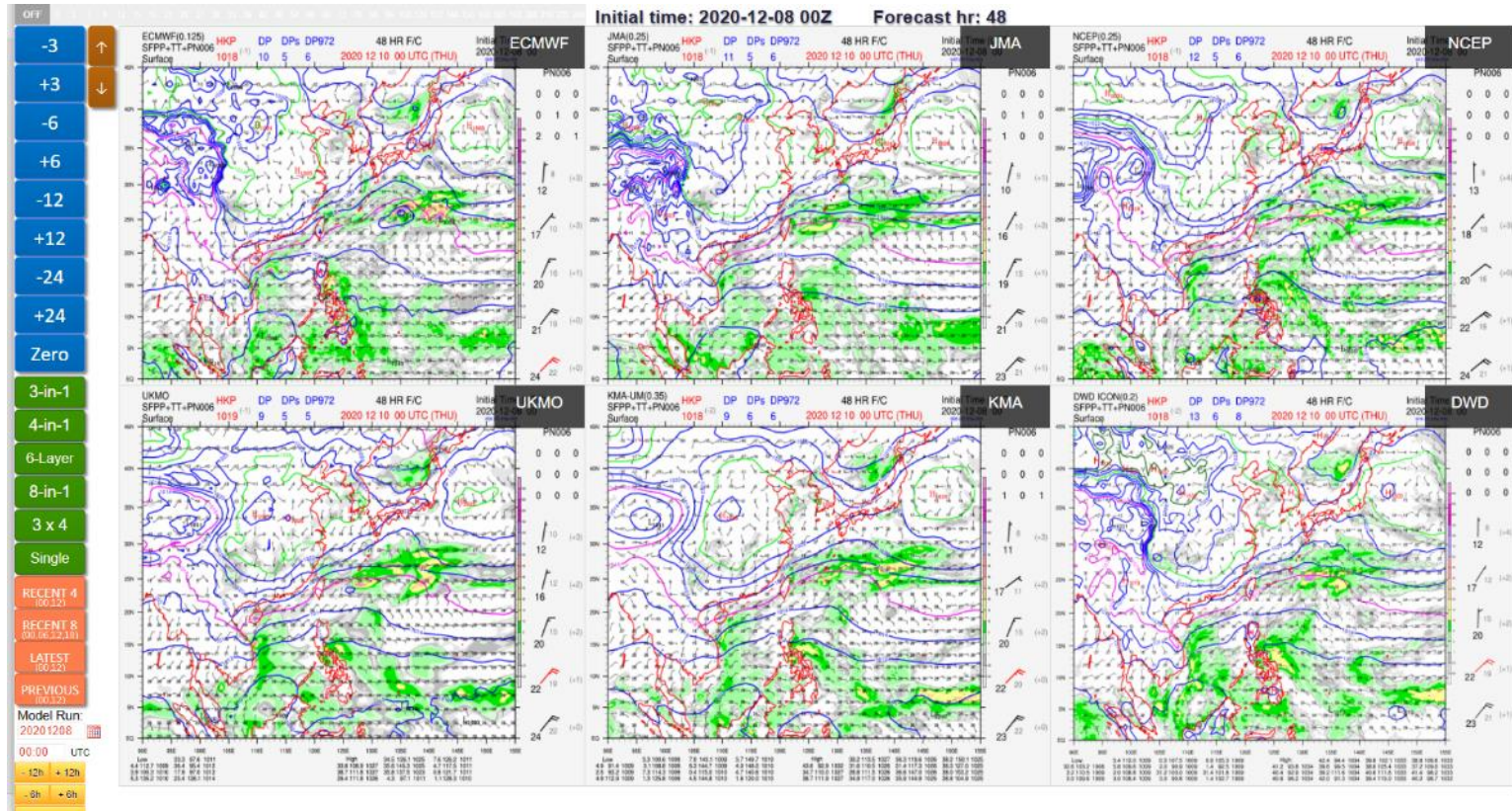
- NWP and EPS Viewer
- Product webpages
- Summary Tables

Weather Information: Links to Product Webpages

The screenshot displays the 'Weather Information' website interface. At the top, there is a navigation bar with icons for Observations, Model, Rainstorms, TC, Visibility, Monsoon, Cold & Hot, Marine, Earthquake, Space Wx, and Misc. Below this is a secondary navigation bar with tabs for Model, Essential, Supplementary, and External. The main content area is titled 'Model - Essential' and contains a grid of 27 product thumbnails. Each thumbnail shows a preview of the product's content, such as maps, charts, or data tables, along with a title and a 'Backup Site' link. The products include:

- AAMC Portal
- AAMC-WRF Meso-NHM and RAPIDS-NHM QPF Stamp Maps
- Analogue Forecast System for Precipitation
- Automatic Weather Forecast
- ECMWF Dashboard
- ECMWF Web Charts
- EPS Meteogram
- EPS + NWP Viewer
- EPS Products
- Extended Forecast Portal
- JMA Forecast Products on Extreme Weather Events
- Mesoscale EPS (Experimental)
- Mesoscale EPSgram (Experimental)
- NHM/AIR Portal
- NWP Portal
- NWP Time Cross and Tephigram
- NWP Time Series
- NWP Time Series Generator
- NWP Viewer
- Objective Consensus Forecast Portal
- PoP Forecast
- Prog Chart Calendar
- QPF Summary Table
- RAPIDS-NHM Hourly Analysis

NWP Viewer



- A tool for forecasters to view / compare multiple NWP prognostic charts

NWP Viewer: Selection menu

The screenshot displays the NWP Viewer Selection menu, which is organized into several sections:

- Navigation and Model Selection:** A top row with tabs for 'Global A', 'Global B', 'Mesoscale', 'Misc', 'EPS select', 'Simplified', 'Contingency', and 'User Guide'. Below this is a row of model selection buttons: 'EC-Zoom', 'JM-Zoom', 'NC-Zoom', 'UK-Zoom', 'KM-Zoom', 'DW-Zoom', 'Sync', 'ECMWF', 'JMA', 'NCEP', 'UKMO', 'CMA-GFS', 'KMA', and 'DWD'.
- Forecast Parameters:** A grid of buttons for selecting forecast parameters. The first column lists time intervals (200, 300, 500, 700, 850, 925, SF-RF, SFZ-RF, SF-PC, SF-TC). The subsequent columns correspond to the models selected in the previous row, with each cell containing a specific forecast parameter (e.g., '200 Div+UV', '200 Z (A4)', '500 RH+UV', etc.).
- Advanced Selection Menu:** A detailed view of the 'Simplified' selection menu. It features a similar top navigation bar with additional models like 'ECMWF WNP', 'JMA', 'NCEP', 'UKMO', 'KMA', 'CMC', and 'ECMWF EPS'. The main area contains a complex arrangement of buttons for various forecast parameters, including wind speed (e.g., '200 W+UV'), precipitation (e.g., '500 IS+WD'), and other meteorological variables (e.g., '500 Z (A4)', '500 Z (Polar)', '850 VT+UV').

- More than 10,000 charts for each 00Z / 12Z model cycle

NWP Viewer

Time scroll bar →

Time increment buttons

- 3
- +3
- 6
- +6
- 12
- +12
- 24
- +24
- Zero

"Zero" button →

Display mode

- 3-in-1
- 6-Model
- 6-Layer
- 8-in-1
- 3 x 4
- Single

Model run

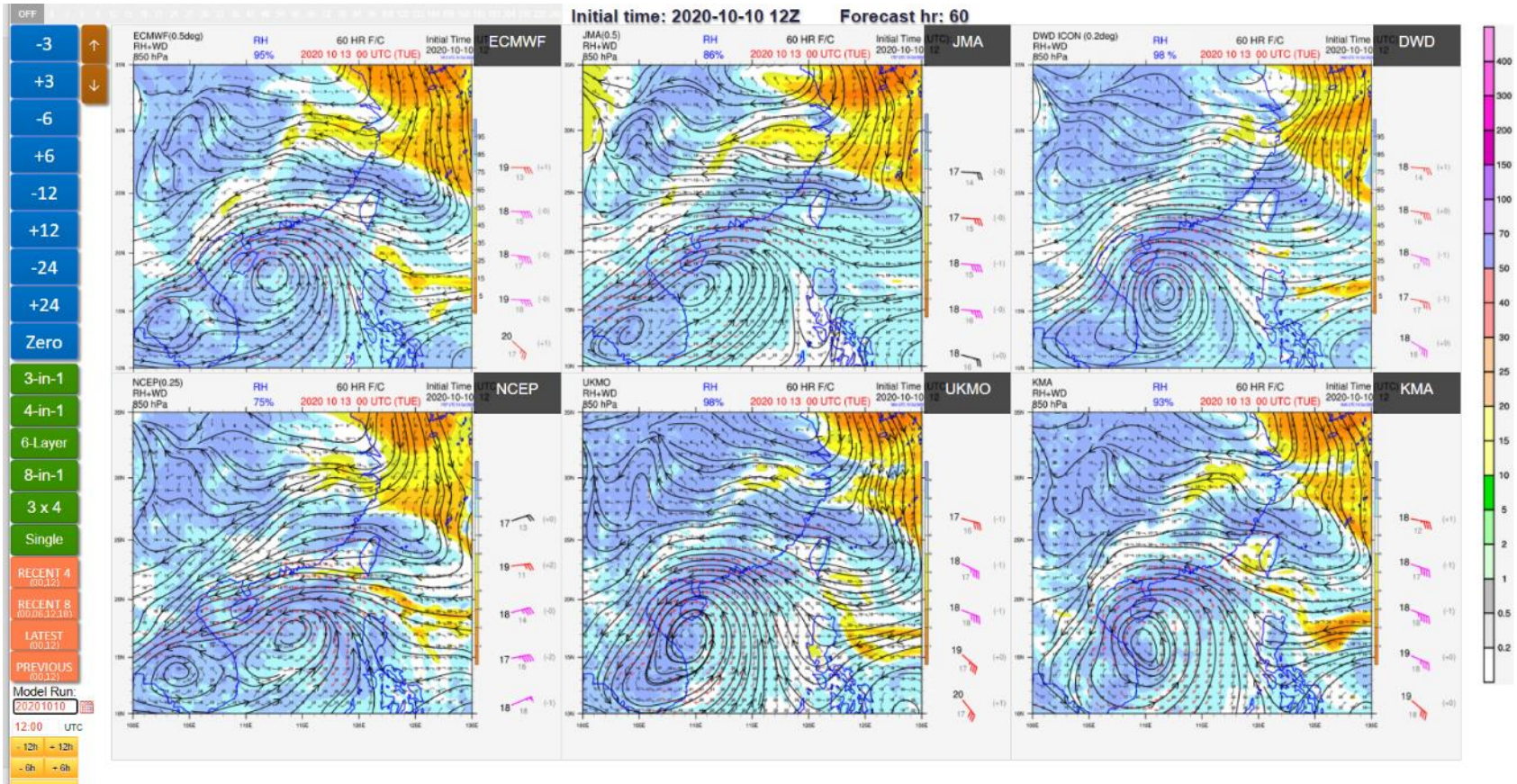
- RECENT 4
- RECENT 8
- LATEST
- PREVIOUS
- Model Run: 20200730
- 12:00 UTC

Model run increment buttons

- 12h +12h
- 0h +0h
- Last 4
- Last 8

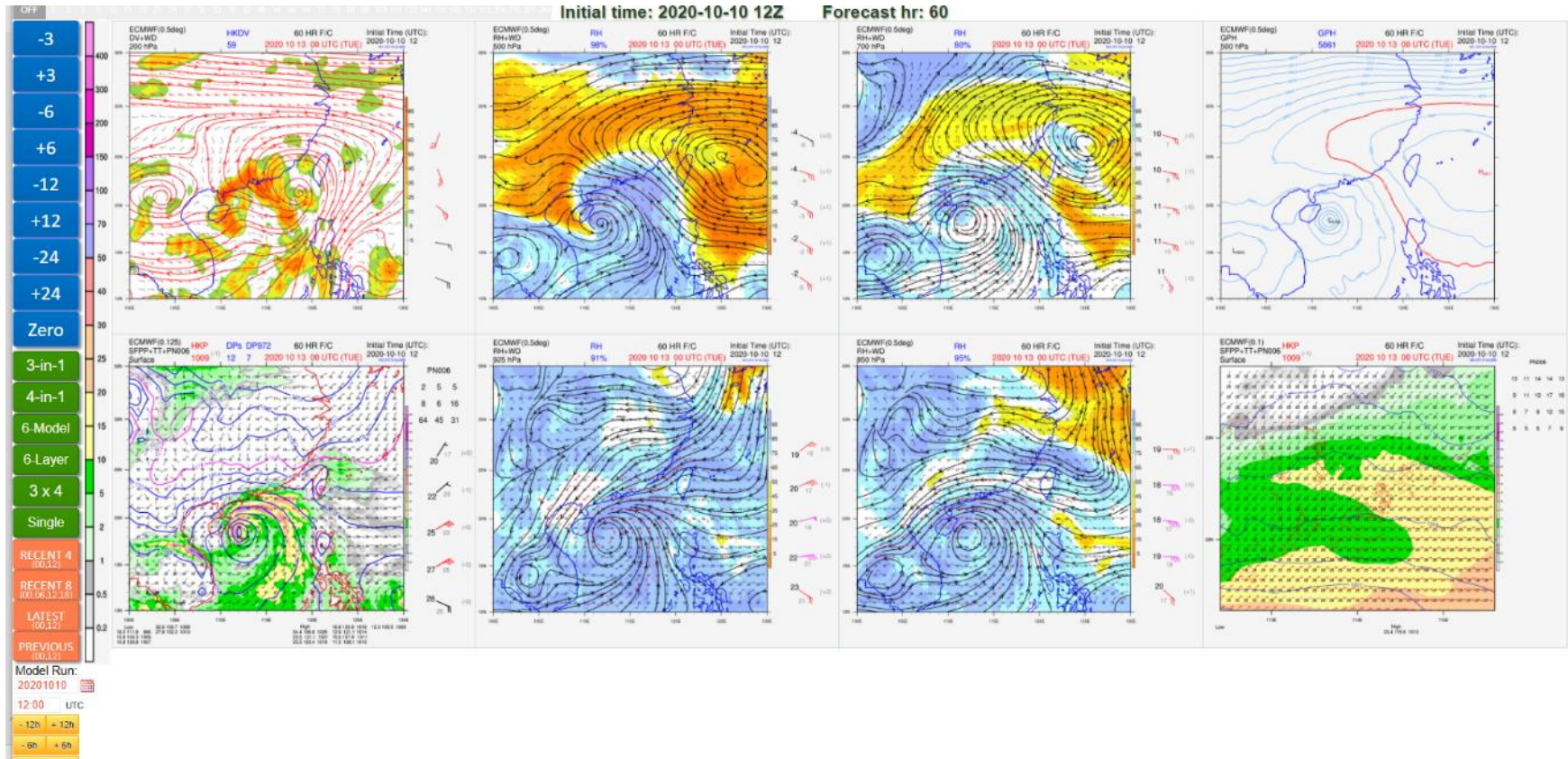
Initial time: 2020-07-30 12Z Forecast hr: 0

NWP Viewer



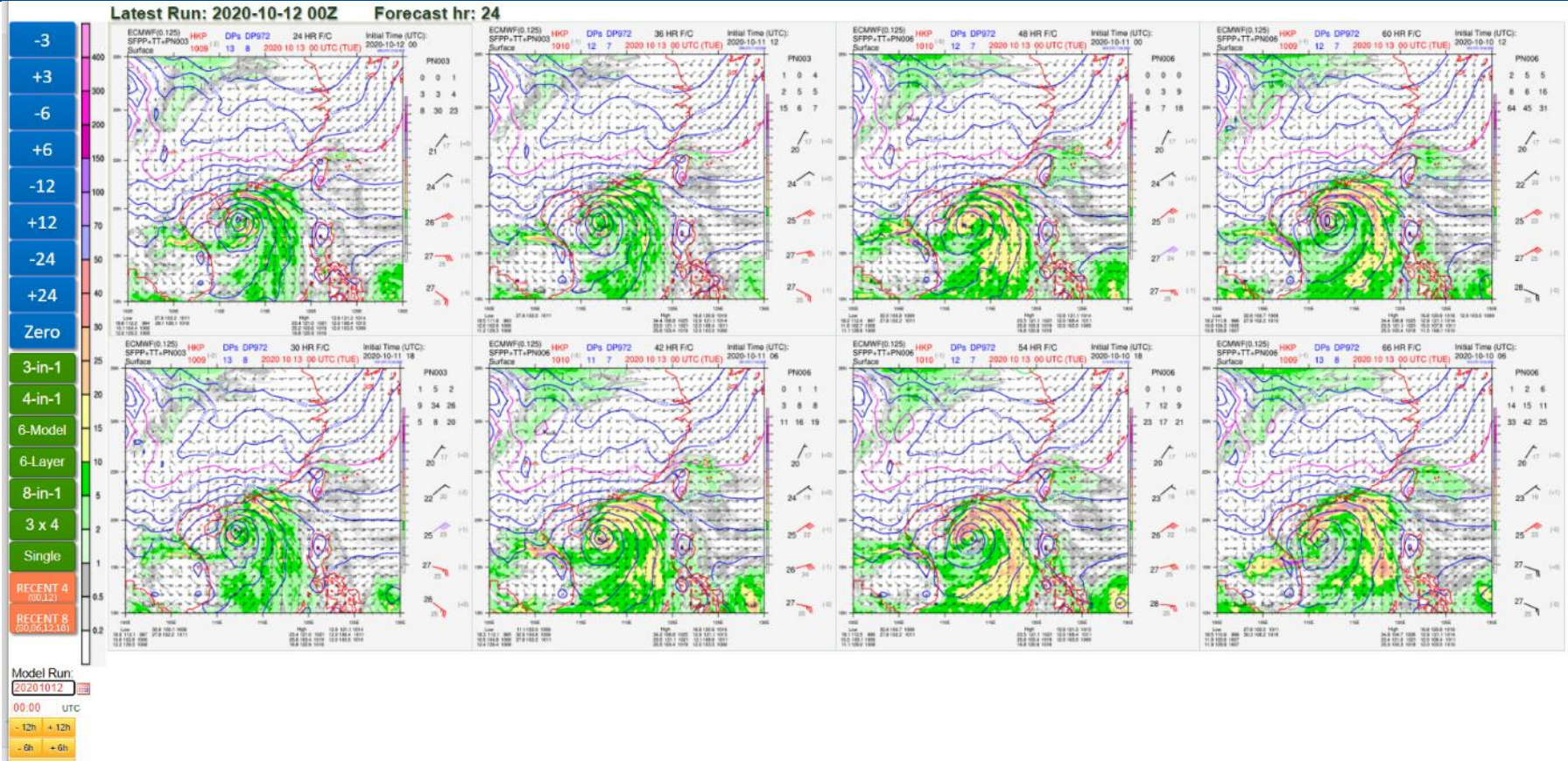
- Sync-ing different models

NWP Viewer



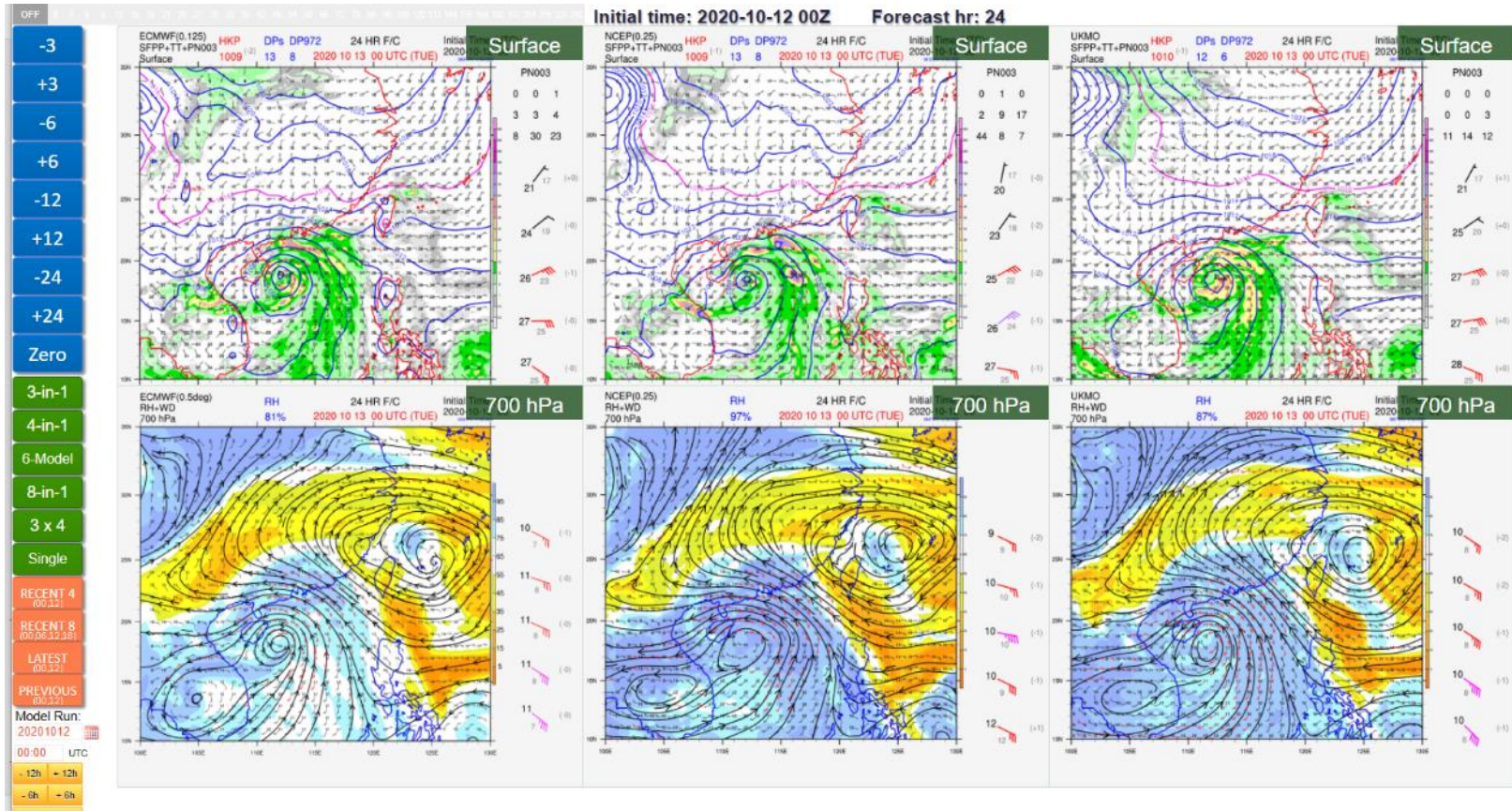
- Displaying charts for different vertical levels for the same model

NWP Viewer



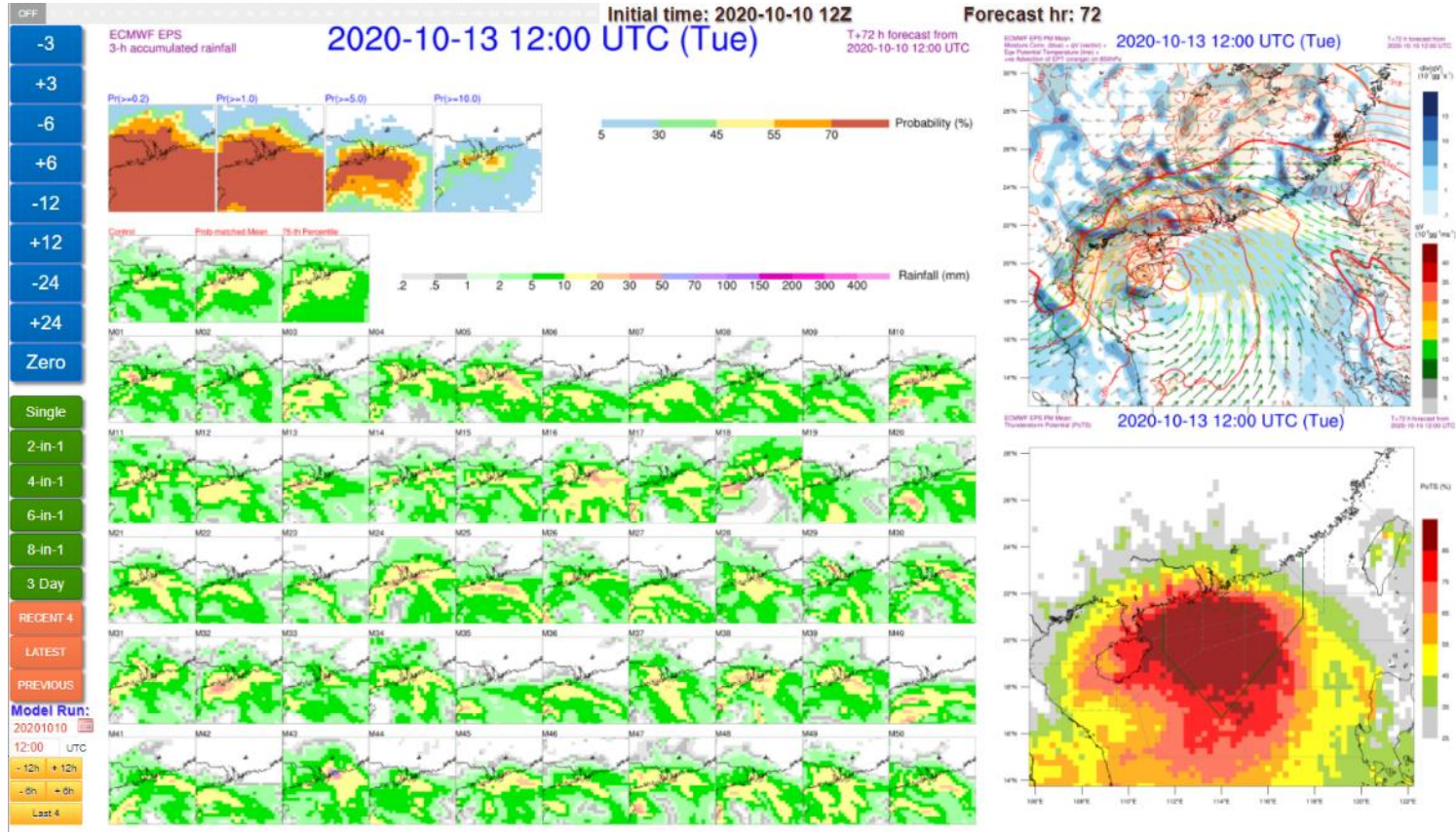
- “Recent 8” model runs

NWP Viewer



- Mix and match

EPS + NWP Viewer



EPS + NWP Viewer

OFF

- 3
- +3
- 6
- +6
- 12
- +12
- 24
- +24
- Zero

- Single
- 3-in-1
- 4-in-1
- 6-in-1
- 8-in-1
- 3 Day
- RECENT 4
- LATEST
- PREVIOUS

Model Run:
20201010
12:00 UTC
-12h +12h
-6h +6h
Last 4

Initial time: 2020-10-10 12Z

Forecast hr: 72

ECMWF EPS
Mean Sea Level Pressure

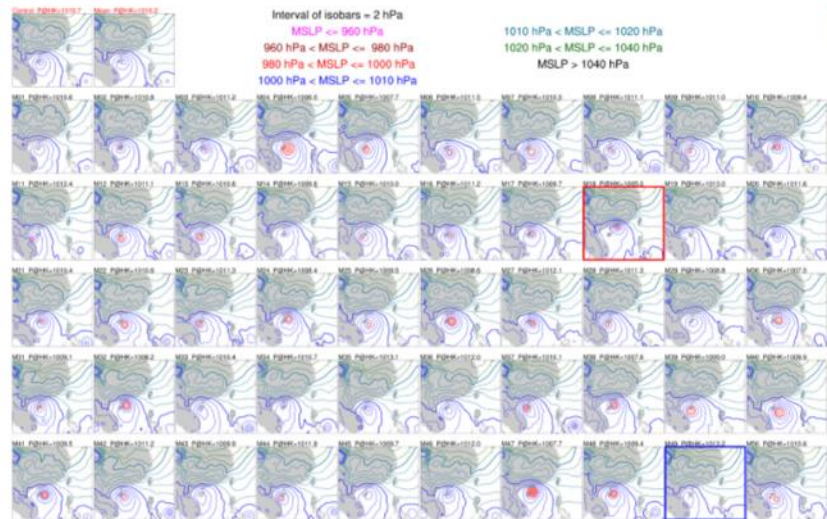
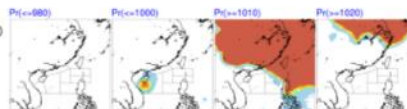
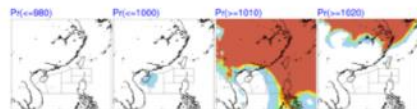
2020-10-13 12:00 UTC (Tue)

T+72 h forecast from
2020-10-10 12:00 UTC

KMA EPS
Mean Sea Level Pressure

2020-10-13 12:00 UTC (Tue)

T+72 h forecast from
2020-10-10 12:00 UTC

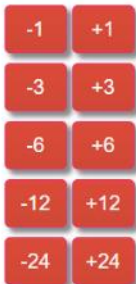


Stamp Maps of Mesoscale Models

Select Model QPF Stamp Maps

**AAMC-WRF
QPF Ensemble**

Forecast at:
2020-10-13 06Z
(TUE)

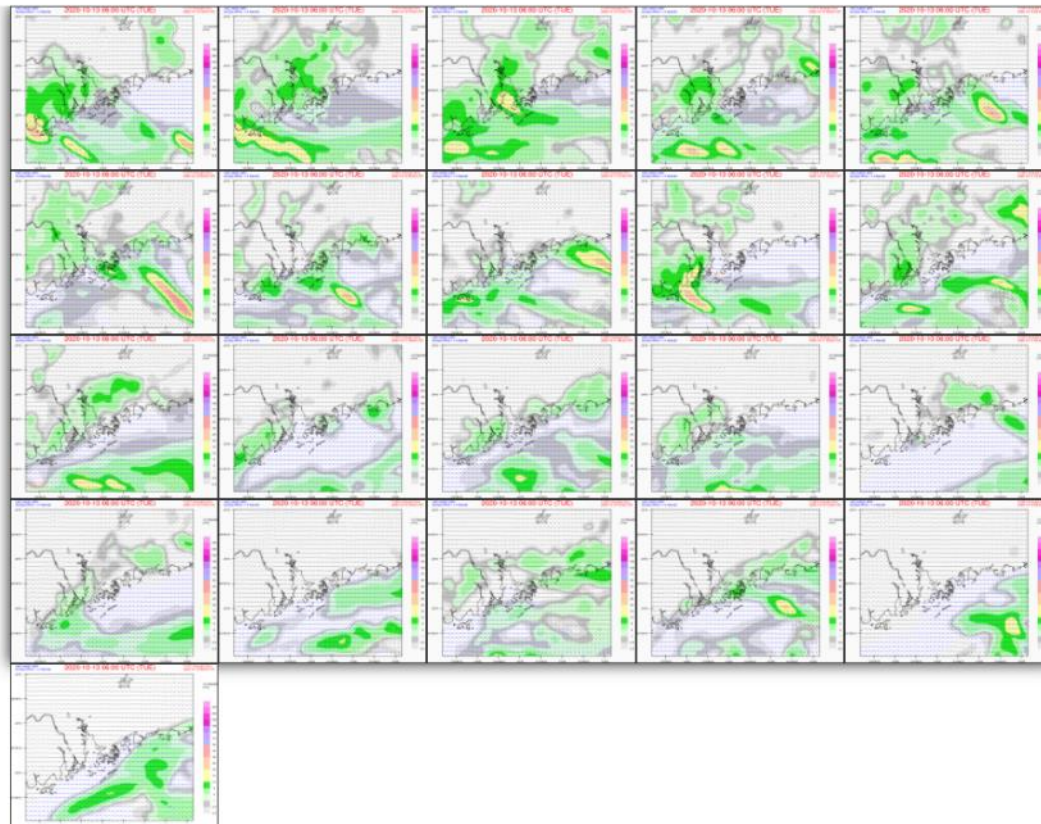


Select Forecast Time:

20201013
00:00 UTC

NOTE:

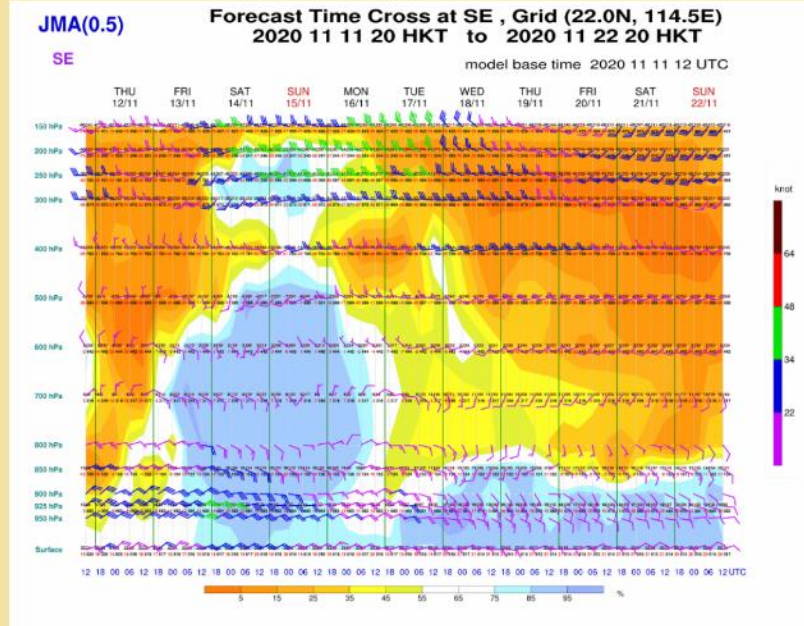
Please use the latest version of web browser with CSS3 support to view this page.



NWP Time Cross and Tephigram

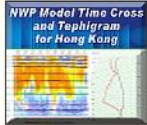
11-day Time Cross (based on 6-hourly data)

Note: Please switch off the magnifier before clicking the following chart for the 5.5-day time cross



- Time cross showing changes in upper-air moisture content and changes in winds

NWP Time Cross and Tephigram



Tephigrams at Tsuen Wan, Grid (22.375N, 114.125E)

Model : 0.125 deg ECMWF

Model base time : 202011112 UTC

(Note: Please click the image to enlarge.)

Model:
 ECMWF
 KMA
 JMA
 DWD
 NCEP

Element:
 Timecross
 Tephigram
 Tephigram(L137)

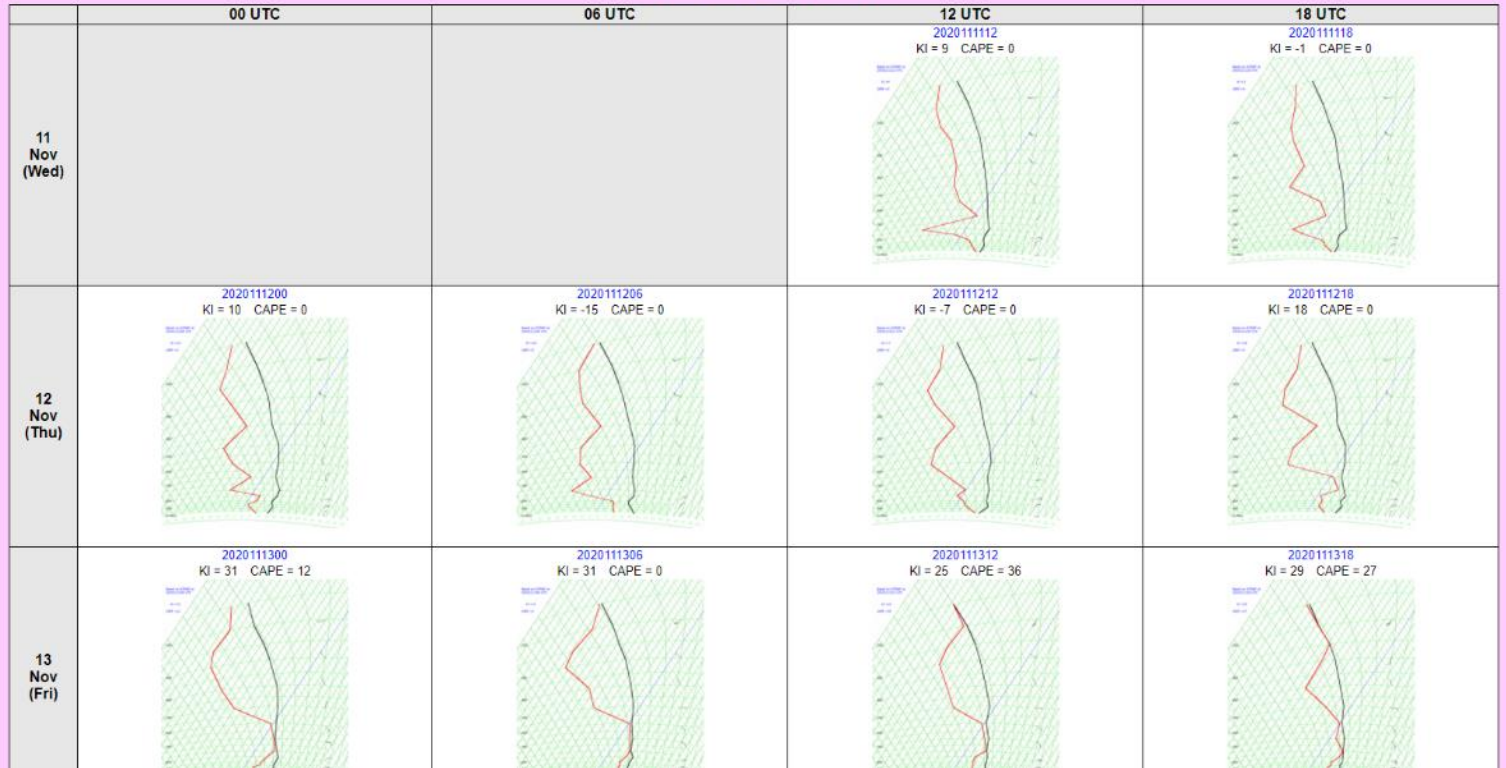
Model Run:
 20201112 12
 20201112 06
 20201112 00
 20201111 18
 20201111 12
 20201111 06
 20201111 00
 20201110 18
 20201110 12
 20201110 06
 20201110 00

Please select grid point:



[User Guide](#)

NWP Model of TX & TP
 (F4 - 20201113)

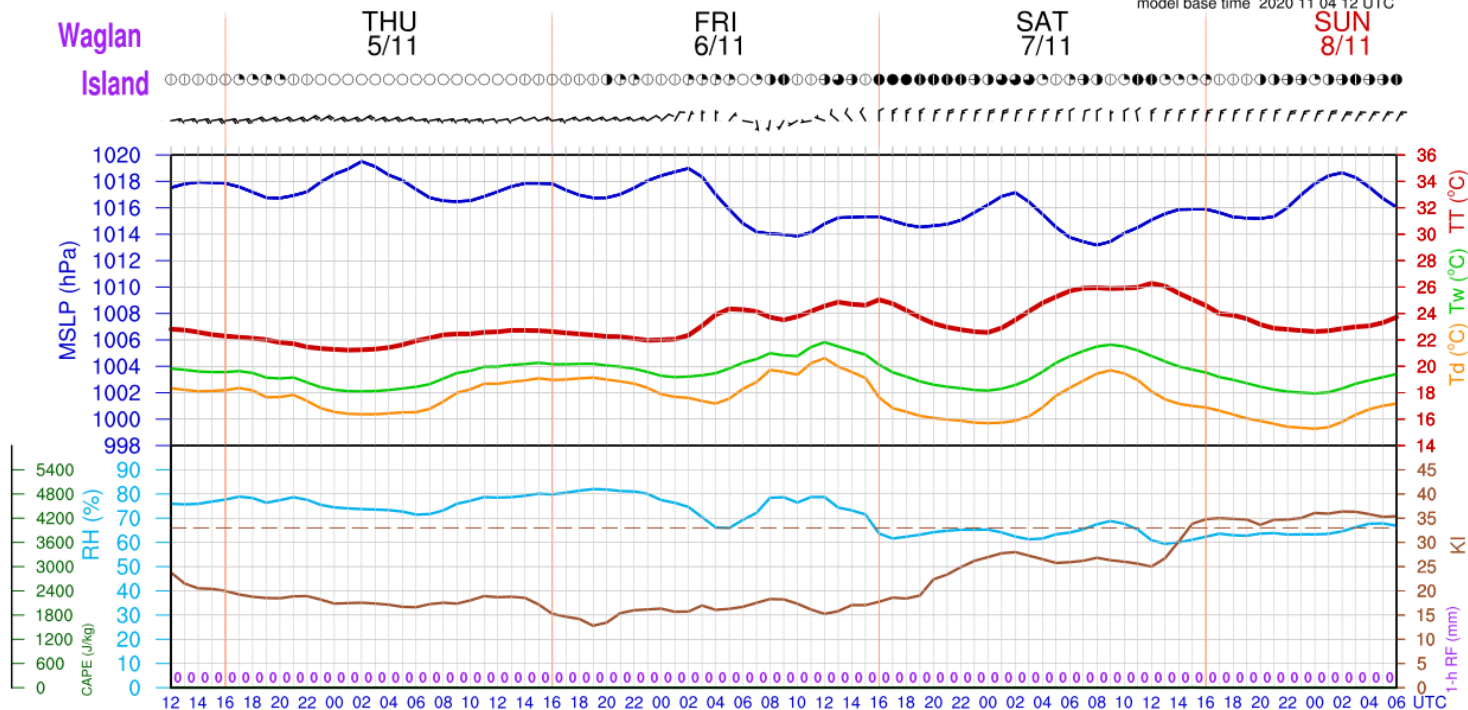


ECMWF High-resolution Products

ECMWF

ECMWF Forecast Time Series at Waglan Island, Grid (22.20N, 114.30E)
2020 11 04 20 HKT to 2020 11 08 14 HKT

model base time 2020 11 04 12 UTC

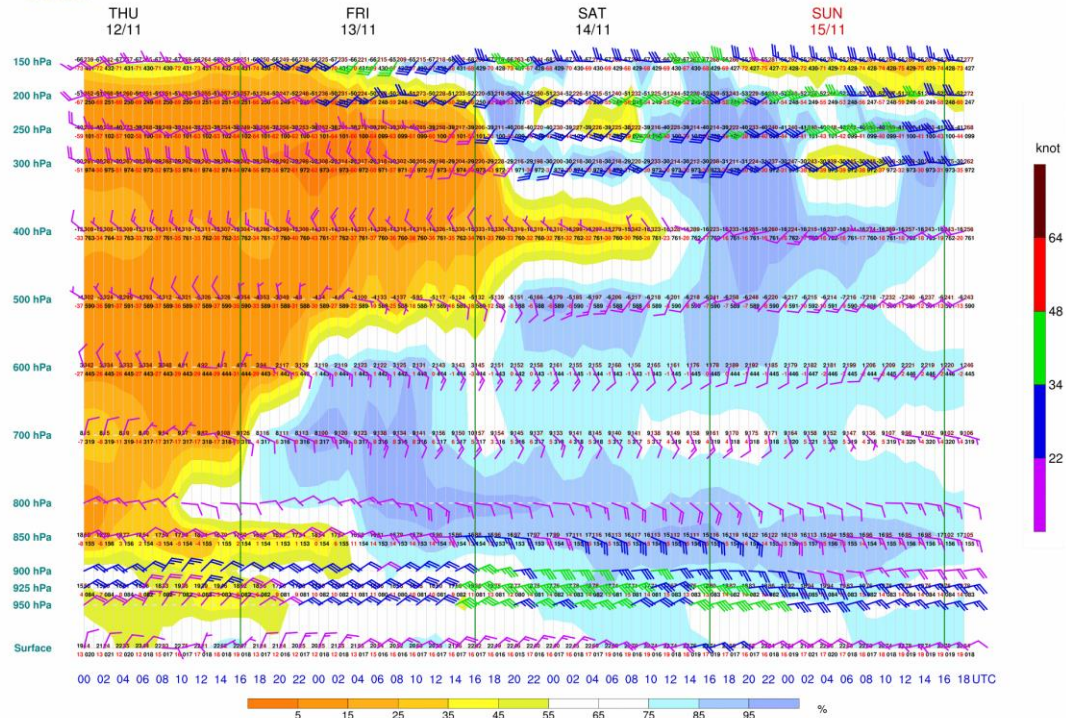


ECMWF High-resolution Products

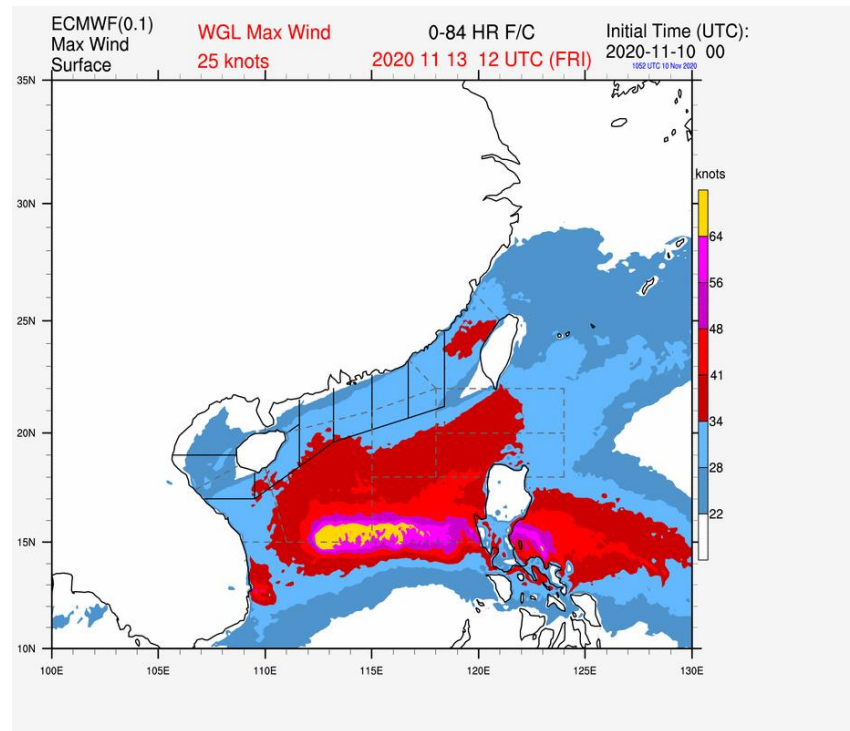
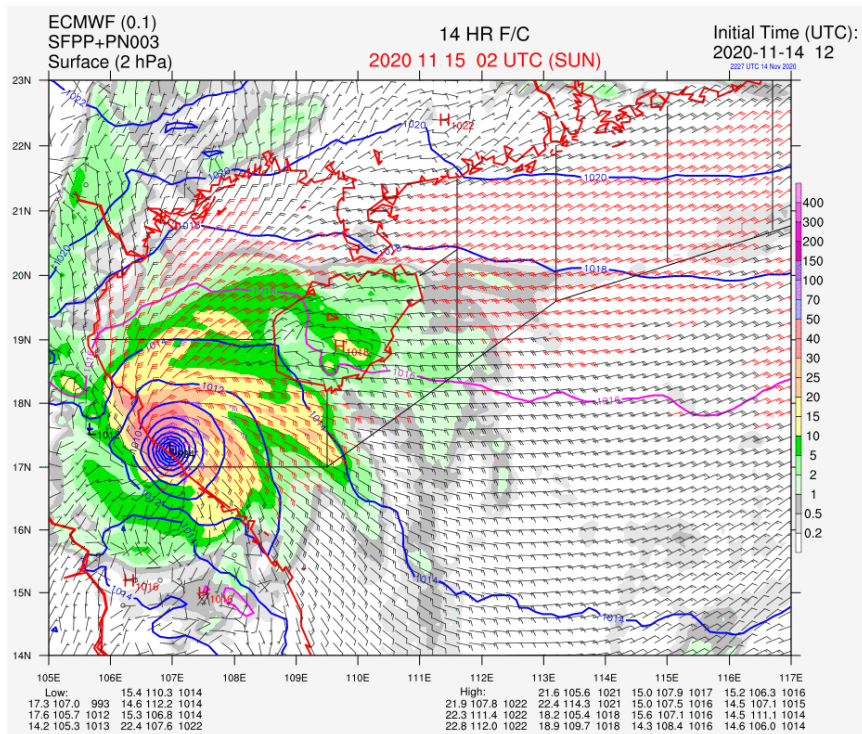
ECMWF(0.125) Forecast Time Cross at HK Island, Grid (22.25N, 114.25E)
2020 11 12 08 HKT to 2020 11 16 02 HKT

HK
Island

model base time 2020 11 12 00 UTC



ECMWF High-resolution Products



EPS Meteogram

EPS Meteogram for Hong Kong

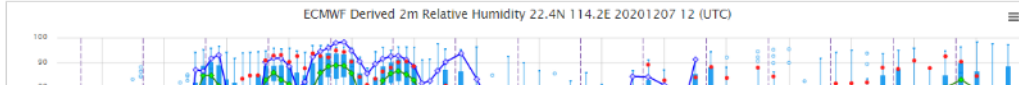
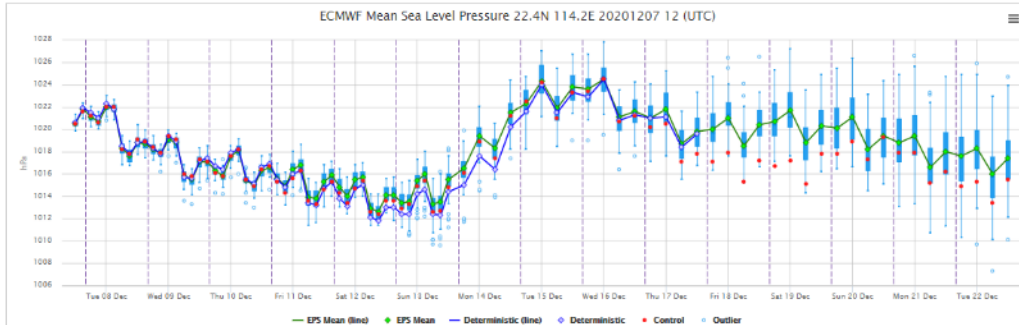
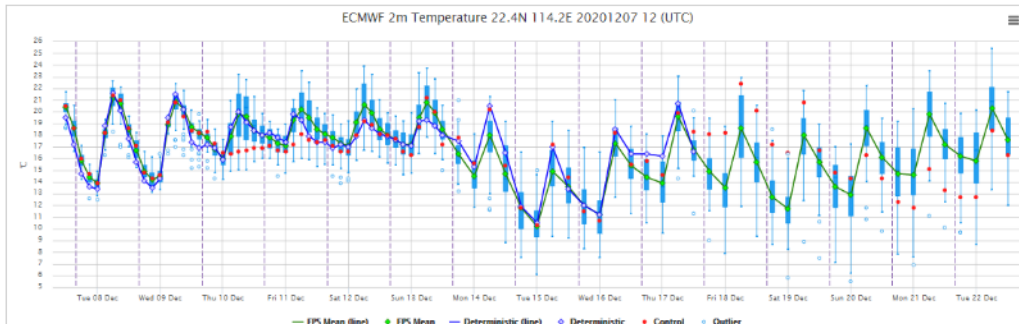
Show One Element & Model Show All Elements Show All Models Recent 4 Runs (00,12)

20201207 12

-6 +6 -12 +12 -24 +24

22.4N 114.2E

Display EPS distribution info on mouseover



- Meteogram for grid points near Hong Kong
- Interactive – can zoom-in for selected days
- Compare meteograms for different models and initial time

EPS Probability

EPS Meteogram for Hong Kong

Show One Element & Model

Show All Elements

Show All Models

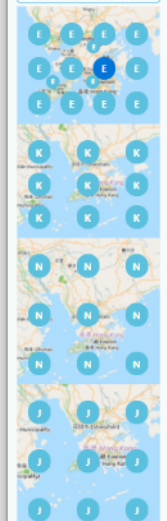
Recent 4 Runs (00,12)

20201207 12

-6 +6 -12 +12 -24 +24

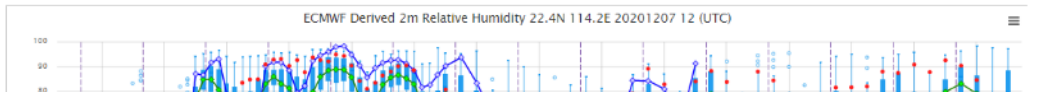
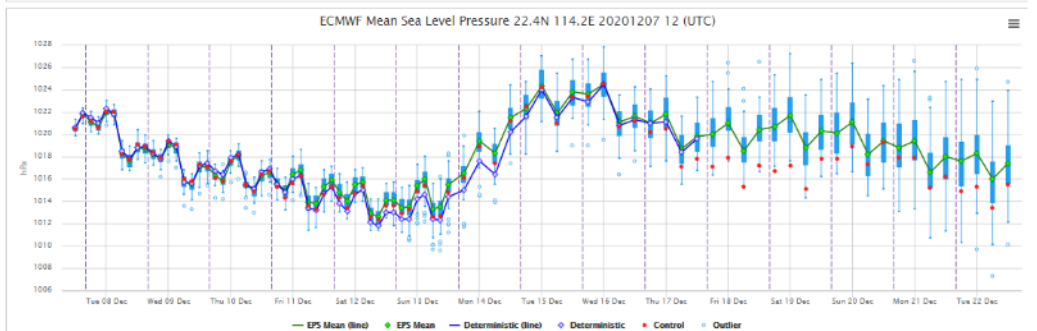
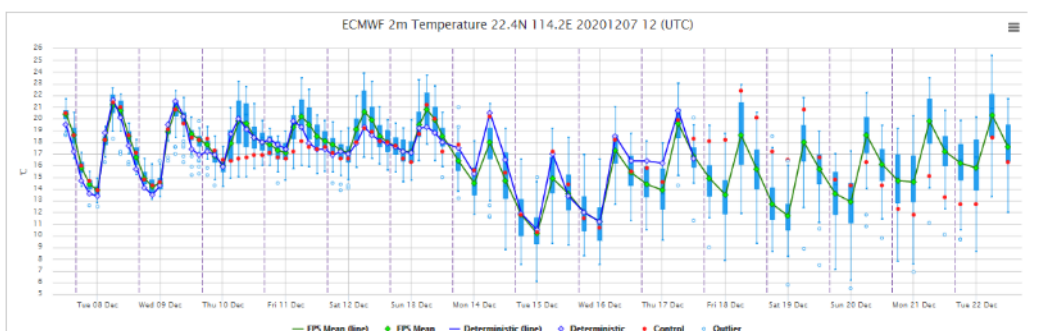


22.4N 114.2E



Display EPS distribution info on mouseover

User and Developer Guide



- Meteogram for grid points near Hong Kong
- Interactive – can zoom-in for selected days and mouseover for additional information
- Compare meteograms for different models and initial time

EPS Probability Tables

EPS Products

Model: **ECMWF**
 JMA
 KMA
 EC+JMA
 EC+KMA

Element: **Probability (Wind)**
 Probability (PPT)
 PoTP >= 10
 PoW >= 10
 PoW >= 15

Model Run: 20201011 00
 20201010 12
 20201010 00
 20201009 12
 20201009 00
 (TTTTTANNDG UTC)

Related links: **User Guide**
 1. [ECMWF Web Charts](#)
 2. [Use of EFL\(WIKI\)](#)
 3. [EFL & SOT in forecasting extremity of cold surge](#)
 4. [ECMWF_EFL for forecasting severe convection](#)
 5. [Examples of past cases](#)
 EPS Products (F4 - 20200423)

ECMWF Probability of 10m wind - Table for HK

Base Time: 2020-10-09 00Z Location: 22.2N, 114.2E

Valid Date/Time	09/00Z Fri 10/00Z Sat	10/00Z Sat 11/00Z Sun	11/00Z Sun 12/00Z Mon	12/00Z Mon 13/00Z Tue	13/00Z Tue 14/00Z Wed	14/00Z Wed 15/00Z Thu	15/00Z Thu 16/00Z Fri	16/00Z Fri 17/00Z Sat	17/00Z Sat 18/00Z Sun	18/00Z Sun 19/00Z Mon
Wind Speed >= 10m/s	1	0	12	66	88	75	26	19	9	11
Wind Speed >= 15m/s	0	0	0	10	12	7	0	1	0	0
Gust >= 15m/s	4	0	6	74	94	92	69	34	17	14
Gust >= 20m/s	0	0	0	25	56	30	11	1	2	0
Gust >= 25m/s	0	0	0	2	9	2	1	0	0	0

JMA Probability of 10m wind - Table for HK

Base Time: 2020-10-09 00Z Location: 22.5N, 113.8E

Valid Date/Time	09/00Z Fri 10/00Z Sat	10/00Z Sat 11/00Z Sun	11/00Z Sun 12/00Z Mon	12/00Z Mon 13/00Z Tue	13/00Z Tue 14/00Z Wed	14/00Z Wed 15/00Z Thu	15/00Z Thu 16/00Z Fri	16/00Z Fri 17/00Z Sat	17/00Z Sat 18/00Z Sun	18/00Z Sun 19/00Z Mon	19/00Z Mon 20/00Z Tue
Wind Speed >= 10m/s	0	0	0	0	0	0	0	0	0	0	0
Wind Speed >= 15m/s	0	0	0	0	0	0	0	0	0	0	0
Wind Speed >= 25m/s	0	0	0	0	0	0	0	0	0	0	0
Gust >= 10m/s	93	4	4	52	89	96	67	70	67	59	44
Gust >= 15m/s	0	0	0	7	15	19	7	0	4	4	0
Gust >= 25m/s	0	0	0	0	0	0	0	0	0	0	0

EPS Probability Tables

EPS Products

Model: **ECMWF**
 JMA
 KMA
 EC+JMA
 EC+KMA

Element: **Probability (Wind)**
Probability (PPT)
 PoTP >= 10
 PoW >= 10
 PoW >= 15

Model Run: 20201011 00
 20201010 12
 20201010 00
 20201009 12
 20201009 00
 1777M620 L7C

Related links: [User Guide](#)
 1. [ECMWF Web Charts](#)
 2. [Use of FFI \(WIKI\)](#)
 3. [FFI & SOT in forecasting extremity of cold surge](#)
 4. [ECMWF: FFI for forecasting severe convection](#)
 5. [Examples of past cases](#)
 EPS Products (F4 - 20200423)

ECMWF Probability of total precipitation - Table for HK

Base Time: 2020-10-09 00Z Location: 22.2N, 114.2E

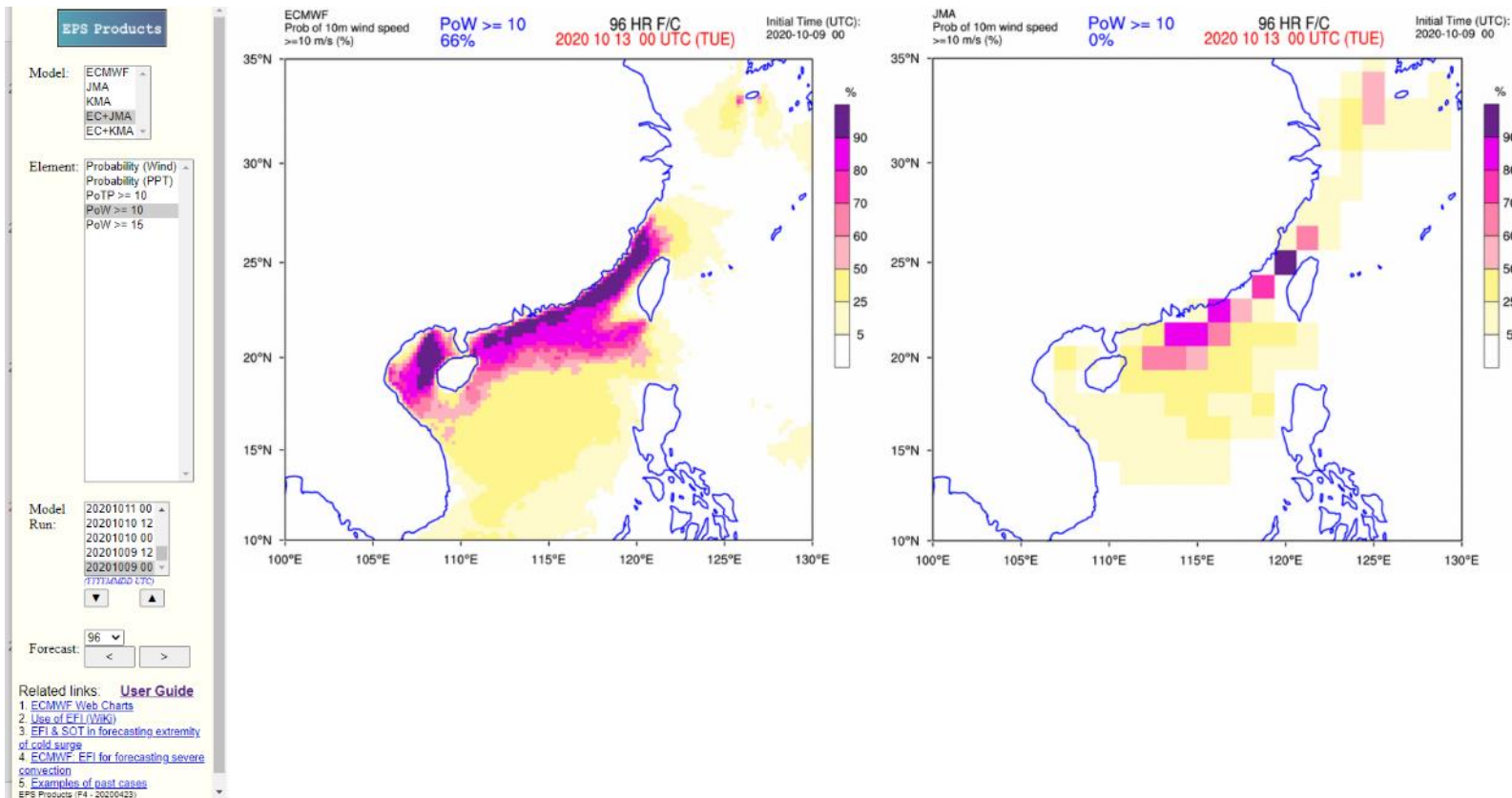
Valid Date/Time	09/00Z Fri 10/00Z Sat	09/12Z Fri 10/12Z Sat	10/00Z Sat 11/00Z Sun	10/12Z Sat 11/12Z Sun	11/00Z Sun 12/00Z Mon	11/12Z Sun 12/12Z Mon	12/00Z Mon 13/00Z Tue	12/12Z Mon 13/12Z Tue	13/00Z Tue 14/00Z Wed	13/12Z Tue 14/12Z Wed	14/00Z Wed 15/00Z Thu	14/12Z Wed 15/12Z Thu	15/00Z Thu 16/00Z Fri	15/12Z Thu 16/12Z Fri	16/00Z Fri 17/00Z Sat
>= 1mm	17	17	1	1	1	21	53	78	88	85	71	54	27	13	17
>= 5mm	0	0	0	0	0	0	38	65	79	78	61	37	16	5	6
>= 10mm	0	0	0	0	0	0	29	59	73	69	52	28	10	5	6
>= 20mm	0	0	0	0	0	0	13	49	66	60	42	19	7	3	5

JMA Probability of total precipitation - Table for HK

Base Time: 2020-10-09 00Z Location: 22.5N, 113.8E

Valid Date/Time	09/00Z Fri 10/00Z Sat	09/12Z Fri 10/12Z Sat	10/00Z Sat 11/00Z Sun	10/12Z Sat 11/12Z Sun	11/00Z Sun 12/00Z Mon	11/12Z Sun 12/12Z Mon	12/00Z Mon 13/00Z Tue	12/12Z Mon 13/12Z Tue	13/00Z Tue 14/00Z Wed	13/12Z Tue 14/12Z Wed	14/00Z Wed 15/00Z Thu	14/12Z Wed 15/12Z Thu	15/00Z Thu 16/00Z Fri	15/12Z Thu 16/12Z Fri	16/00Z Fri 17/00Z Sat
>= 1mm	0	0	0	0	0	4	11	48	48	81	78	74	70	63	41
>= 5mm	0	0	0	0	0	4	4	19	33	52	70	63	59	26	7
>= 10mm	0	0	0	0	0	1	3	5	16	37	45	38	41	11	5
>= 25mm	0	0	0	0	0	0	4	4	11	7	15	4	7	4	0
>= 50mm	0	0	0	0	0	0	0	0	0	4	4	4	0	0	0
>= 100mm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

EPS Probability Maps

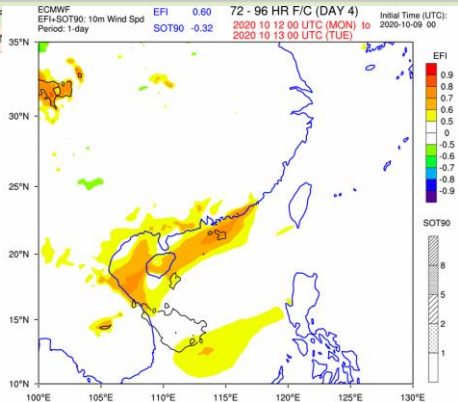


EPS Extreme Forecast Index (EFI) / Shift of Tails (SOT)

EFI & SOT - Table for HK

Base Time: 2020-10-09 00Z Location: 22.2N, 114.2E

Element	Index	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
		09/00Z Fri 10/00Z Sat	10/00Z Sat 11/00Z Sun	11/00Z Sun 12/00Z Mon	12/00Z Mon 13/00Z Tue	13/00Z Tue 14/00Z Wed	14/00Z Wed 15/00Z Thu	15/00Z Thu 16/00Z Fri
2m Min. TT	EFI	-0.45	-0.38	-0.12	0.06	0.15	0.19	0.11
	SOT10	-1.1	-1.23	-1.62	-1.8	-1.85	-1.84	-1.48
2m TT	EFI	-0.32	-0.24	-0.02	0.18	0.09	0.05	0.01
	SOT10	-1.37	-1.64	-1.9	-2.12	-1.95		
	SOT90	-3.01	-2.95	-2.24	-1.47	-1.67		
2m Max. TT	EFI	-0.02	-0.24	-0.02	0.3	-0.02		
	SOT90	-2.08	-2.72	-2.13	-1.09	-1.95		
10m Wind	EFI	0.1	-0.1	-0.05	0.6	0.81		
	SOT90	-1.48	-1.99	-1.45	-0.32	0.24		
10m Gust	EFI	0.16	-0.12	-0.04	0.66	0.78		
	SOT90	-1.25	-1.56	-1.24	-0.17	-0.03		
Total PPN (1-day)	EFI	-0.1	-0.24	-0.29	0.19	0.61		
	SOT90	-1.19	-1.24	-1.25	-0.66	0.37		
CAPE	EFI	-0.3	-0.35	-0.36	0.03	0.21		
	SOT90	-2.23	-2.03	-1.8	-1.74	-1.28		
CAPESHEAR	EF	ECMWF EF+SOT90: 10m Wind Spd Period: 1-day						
	SOT	EFI 0.60 SOT90 -0.32	72 - 96 HR F/C (DAY 4) 2020 10 12 00 UTC (MON) to 2020 10 13 00 UTC (TUE)					Initial Time (UTC): 2020-10-09 00



10m Wind Speed - EFI & SOT90

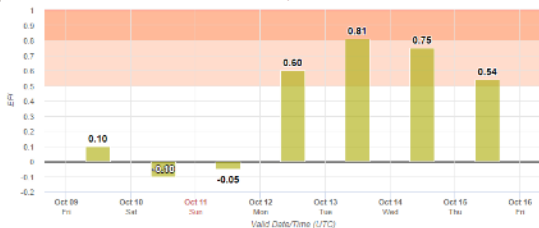
Base Time: 2020-10-09 00Z Location: 22.2N, 114.2E

Summary Table for All EFI/SOT Elements

Index	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
	09/00Z Fri 10/00Z Sat	10/00Z Sat 11/00Z Sun	11/00Z Sun 12/00Z Mon	12/00Z Mon 13/00Z Tue	13/00Z Tue 14/00Z Wed	14/00Z Wed 15/00Z Thu	15/00Z Thu 16/00Z Fri
EFI	0.1	0.1	-0.05	0.6	0.81	0.76	0.54
SOT90	-1.48	-1.99	-1.45	-0.32	0.24	-0.1	-0.58

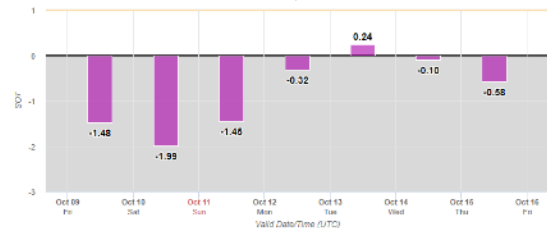
10m Wind Speed - EFI

Base Time: 2020-10-09 00Z Location: 22.2N, 114.2E



10m Wind Speed - SOT90

Base Time: 2020-10-09 00Z Location: 22.2N, 114.2E



Quantitative Precipitation Forecast (QPF) Summary Table

Quantitative Precipitation Forecast (QPF) Summary Table >> Daily R/T map

View selected model run Compare selected with previous model runs Select model run: -12 -6 20200809 12 +6 +12

Filter by Model: ECMWF KMA JMA DWD UKMO NCEP AAMC-WRF ECEPS HKO MEPS Filter by Grid: Grid closest to HKO Min Average Max

Model	Grid / Type	Forecast Date									
		10/8 (Mon)	11/8 (Tue)	12/8 (Wed)	13/8 (Thu)	14/8 (Fri)	15/8 (Sat)	16/8 (Sun)	17/8 (Mon)	18/8 (Tue)	19/8 (Wed)
ECMWF	Average	0.7	2.1	16.6	16.6	5.7	3.6	3.5	1.7	0.7	0.9
ECMWF	Maximum	2.0	3.6	22.6	20.8	7.0	6.1	7.2	4.8	1.1	1.9
KMA	Average	0.2	0.4	21.8	21.5	4.4	3.1	0.6	0.2	1.5	3.9
KMA	Maximum	0.8	0.6	41.5	34.9	5.8	5.5	0.9	0.6	1.9	4.3
JMA	Average	< 0.1	0.3	4.3	32.0	1.1	< 0.1	0.7	0.6	0.1	0.6
JMA	Maximum	0.1	0.3	5.3	36.9	1.4	0.1	1.3	1.0	0.5	1.3
DWD	Average	0.2	3.1	38.9	32.0	2.1	1.0	0.7			
DWD	Maximum	0.9	7.9	63.2	51.8	4.5	2.2	2.0			
UKMO	Average	0.2	0.3	33.1	16.3	7.8	4.6				
UKMO	Maximum	0.5	1.0	42.9	21.3	8.6	6.1				
NCEP	Average	0.0	0.8	8.9	35.2	22.7	9.6	1.9	0.5	1.1	< 0.1
NCEP	Maximum	0.0	1.5	12.0	43.0	27.7	19.1	2.9	0.9	2.9	< 0.1
AAMC-WRF	Average	< 0.1	< 0.1	6.0							
AAMC-WRF	Maximum	< 0.1	0.1	20.2							
ECEPS	50%-tile	0.9	1.9	12.5	14.2	7.0	6.4	3.7	2.4	1.1	1.5
ECEPS	75%-tile	1.5	2.7	18.2	18.6	10.7	8.9	7.0	5.5	3.0	4.8
ECEPS	PoP (Yes/No)	69%	89%	99%	99%	94%	94%	91%	82%	71%	70%
ECEPS	PoP (Moderate)	0%	1%	78%	90%	37%	26%	17%	11%	6%	10%
ECEPS	PoP (Heavy)	0%	0%	44%	58%	17%	10%	8%	5%	2%	6%
HKO MEPS	50%-tile	0.0	0.5	21.4							
HKO MEPS	75%-tile	0.1	1.8	33.6							
HKO MEPS	PoP (Yes/No)	29%	85%	100%							
HKO MEPS	PoP (Moderate)	1%	6%	82%							
HKO MEPS	PoP (Heavy)	0%	3%	71%							

- Summarizes daily QPF values over Hong Kong for the coming 10 days for major global and mesoscale deterministic models
- Rainfall percentiles PoP for EPS outputs

Quantitative Precipitation Forecast (QPF) Summary Table

Quantitative Precipitation Forecast (QPF) Summary Table >> Daily R/F map

View selected model run
 Compare selected with previous model runs
 Select model run: -12 -6 20200809 12 +6 +12

Filter by Model: ECMWF KMA JMA DWD UKMO NCEP AAMC-WRF ECEPS HKO MEPS
 Filter by Grid: Grid closest to HKO Min Average Max

10 (Mon) 11 (Tue) 12 (Wed) 13 (Thu) 14 (Fri) 15 (Sat) 16 (Sun) 17 (Mon) 18 (Tue) 19 (Wed)

Forecast Date : 12 Aug 2020 (Wed)

Model	Grid / Type	Base Time											
		09/12 Z	09/06 Z	09/00 Z	08/18 Z	08/12 Z	08/06 Z	08/00 Z	07/18 Z	07/12 Z	07/06 Z	07/00 Z	06/18 Z
ECMWF	Average	16.6	9.0	10.3	6.1	5.8	1.6	14.7		6.5		5.2	
KMA	Average	21.8		16.8		22.2		19.2		19.7		10.3	
JMA	Average	4.3	7.8	4.2	5.8	1.9	4.4	3.0	2.9	2.5	7.7	8.5	11.1
DWD	Average	38.9		14.0		11.4		6.4		12.4		20.5	
UKMO	Average	33.1		17.9		21.3		21.7		14.3		14.4	
NCEP	Average	8.9	4.2	2.4	2.5	3.9	13.4	8.7	11.7	0.9	1.9	2.7	1.1
AAMC-WRF	Average	6.0	10.1	23.8	12.7								
ECEPS	50%-tile	12.5		13.5		10.6		10.2		11.9		10.8	
ECEPS	75%-tile	18.2		19.2		16.0		15.6		19.1		19.3	
ECEPS	PoP (Yes/No)	99%		99%		98%		98%		97%			
ECEPS	PoP (Moderate)	78%		82%		67%		62%		66%		57%	
ECEPS	PoP (Heavy)	44%		53%		37%		34%		46%		43%	
HKO MEPS	50%-tile	21.4											
HKO MEPS	75%-tile	33.6											
HKO MEPS	PoP (Yes/No)	100%											
HKO MEPS	PoP (Moderate)	82%											
HKO MEPS	PoP (Heavy)	71%											

Note : Depending on the forecast hours available for different models, rainfall accumulation periods may be longer or shorter than 24 hours in some cases (indicated in italics). Please refer to [User Guide](#) for details.

- Compares outputs from previous model runs

Quantitative Precipitation Forecast (QPF) Summary Table

Quantitative Precipitation Forecast (QPF) Summary Table

View selected model run
 Compare selected with previous model runs

Select model run: -12 -6 20201009 12 +6 +12

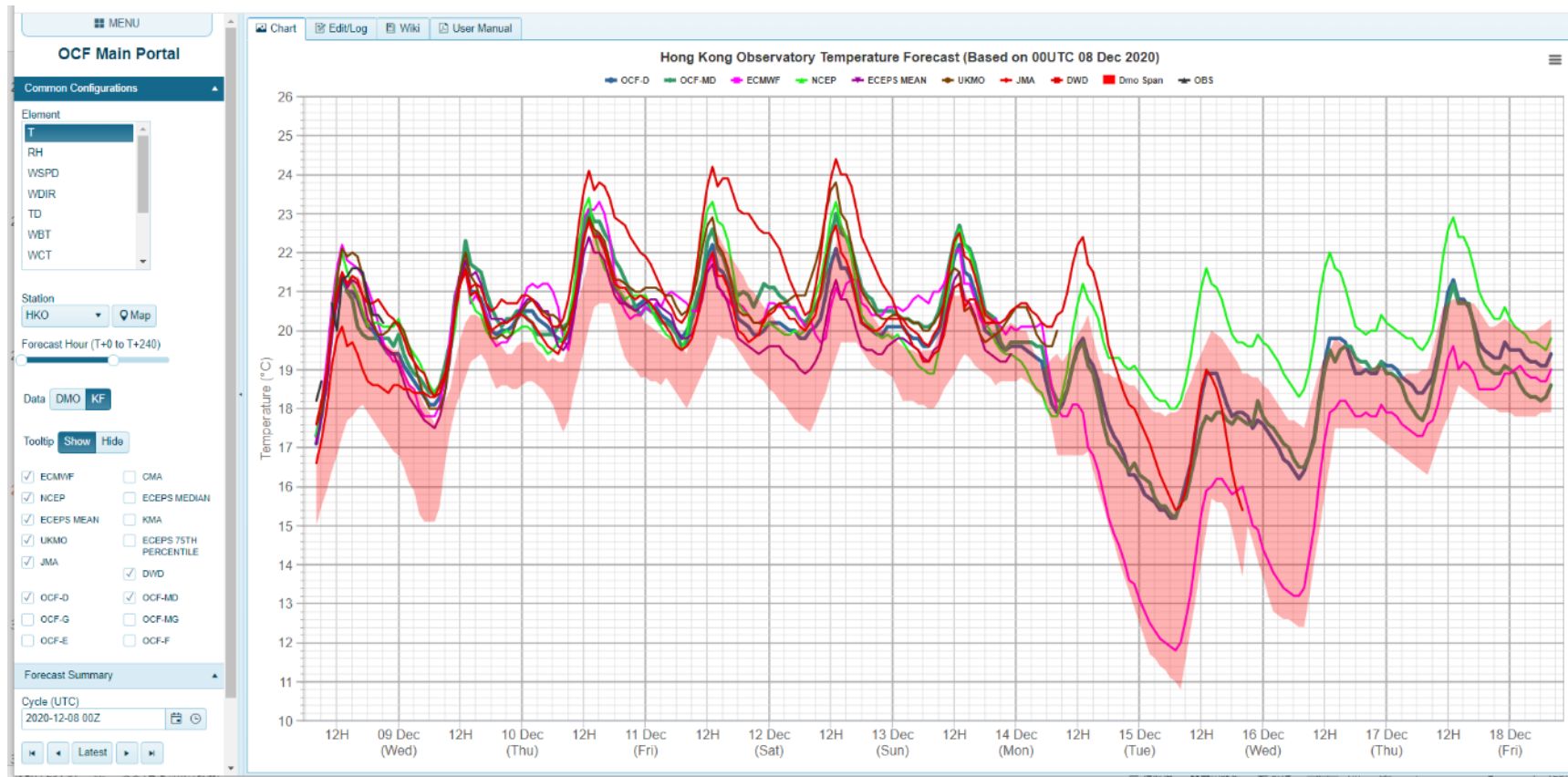
>> Table for HK

Filter by Model: ECMWF ECMWF(Trial) KMA JMA DWD UKMO NCEP AAMC-WRF

Model	Forecast Date									
	10/10 (Sat)	11/10 (Sun)	12/10 (Mon)	13/10 (Tue)	14/10 (Wed)	15/10 (Thu)	16/10 (Fri)	17/10 (Sat)	18/10 (Sun)	19/10 (Mon)
ECMWF										
KMA										
JMA										
DWD										
UKMO										
NCEP										
AAMC-WRF										

- Map view for inspecting spatial distribution

Objective Consensus Forecast



Objective Consensus Forecast

MENU
 Chart Edit/Log Wiki User Manual

OCF Temperature Forecast Summary

Common Configurations

ECMWF ECEPS MEDIAN
 NCEP KMA
 ECEPS MEAN ECEPS 75TH PERCENTILE
 UKMO ECEPS 75TH PERCENTILE
 JMA DWD
 CMA
 OCF-D OCF-MD
 OCF-G OCF-MG
 OCF-E OCF-F
 OCF-H

Forecast Summary

Cycle (UTC)
2020-12-07 12Z

Station
HKO

Data
All

Verification

Quarter on Quarter Comparison

Hong Kong Observatory	08/12 (Tue)	09/12 (Wed)	10/12 (Thu)	11/12 (Fri)	12/12 (Sat)	13/12 (Sun)	14/12 (Mon)	15/12 (Tue)	16/12 (Wed)	17/12 (Thu)	18/12 (Fri)	19/12 (Sat)	20/12 (Sun)	21/12 (Mon)	22/12 (Tue)	23/12 (Wed)
OBS	KFm 18 - 22	//	//	//	//	//	//	//	//	//	//	//	//	//	//	//
OCF-D	KFm 17 - 22	18 - 21	19 - 22	20 - 22	19 - 22	19 - 22	16 - 20	13 - 18	14 - 19	17 - 21	16 - 20	15 - 21	16 - 21	17 - 22	17 - 22	14 - 20
OCF-H	KFm 17 - 21	18 - 20	19 - 21	19 - 21	19 - 21	19 - 21	15 - 19	13 - 17	13 - 19	16 - 21	15 - 20	14 - 21	16 - 21	17 - 22	17 - 22	14 - 20
OCF-MD	KFm 17 - 22	18 - 22	19 - 23	19 - 23	19 - 22	19 - 22	16 - 20	13 - 17	14 - 19	16 - 21	16 - 21	14 - 22	16 - 21	17 - 24	17 - 23	15 - 18
ECMWF	KFm 17 - 23	17 - 22	19 - 21	20 - 21	19 - 21	19 - 21	16 - 21	13 - 18	14 - 19	18 - 21	//	//	//	//	//	//
	KFs 17 - 22	17 - 22	19 - 21	19 - 21	19 - 20	19 - 21	16 - 21	13 - 17	14 - 18	18 - 21	//	//	//	//	//	//
	DMO 14 - 21	15 - 21	17 - 20	18 - 20	18 - 20	18 - 20	16 - 20	12 - 17	13 - 18	17 - 20	//	//	//	//	//	//
NCEP	KFm 17 - 22	19 - 21	19 - 23	19 - 23	20 - 24	19 - 22	17 - 21	17 - 21	17 - 22	18 - 23	16 - 21	15 - 21	16 - 21	17 - 23	17 - 22	14 - 20
	KFs 17 - 22	19 - 21	19 - 24	19 - 23	20 - 24	19 - 22	17 - 21	17 - 21	17 - 21	18 - 22	16 - 20	15 - 19	16 - 20	17 - 22	18 - 22	14 - 19
	DMO 17 - 20	18 - 19	18 - 22	19 - 22	19 - 22	19 - 21	17 - 19	17 - 19	17 - 20	18 - 20	16 - 19	15 - 19	17 - 18	18 - 20	18 - 20	15 - 18
ECEPS MEAN	KFm 16 - 22	17 - 22	18 - 21	19 - 21	19 - 22	19 - 22	15 - 20	13 - 16	13 - 18	16 - 20	16 - 20	14 - 20	16 - 21	17 - 22	17 - 21	//
	KFs 17 - 22	17 - 22	19 - 21	19 - 22	19 - 22	19 - 22	15 - 19	13 - 16	13 - 18	16 - 20	16 - 20	15 - 20	16 - 20	17 - 21	18 - 22	//
	DMO 15 - 21	15 - 20	17 - 19	18 - 20	18 - 20	18 - 20	14 - 18	12 - 15	12 - 17	15 - 19	16 - 18	15 - 18	16 - 18	17 - 19	18 - 19	//
UKMO	KFm 17 - 23	18 - 22	19 - 23	20 - 22	21 - 23	20 - 22	//	//	//	//	//	//	//	//	//	//
	KFs 17 - 22	18 - 22	20 - 21	20 - 22	21 - 24	20 - 22	//	//	//	//	//	//	//	//	//	//
	DMO 16 - 21	16 - 20	19 - 21	20 - 21	20 - 22	20 - 21	//	//	//	//	//	//	//	//	//	//
JMA	KFm 16 - 20	17 - 19	18 - 22	19 - 22	19 - 23	19 - 23	13 - 20	11 - 16	11 - 18	14 - 21	16 - 20	//	//	//	//	//
	KFs 16 - 19	17 - 19	18 - 22	20 - 22	20 - 23	19 - 23	13 - 19	11 - 15	11 - 17	14 - 20	16 - 19	//	//	//	//	//
	DMO 15 - 18	16 - 18	17 - 21	19 - 21	19 - 21	19 - 21	13 - 19	10 - 14	10 - 16	13 - 19	15 - 17	//	//	//	//	//
DWD	KFm 17 - 21	18 - 23	20 - 24	20 - 24	21 - 25	19 - 23	19 - 23	//	//	//	//	//	//	//	//	//
	KFs 17 - 21	18 - 22	20 - 24	20 - 23	21 - 25	20 - 23	19 - 23	16 - 19	//	//	//	//	//	//	//	//
	DMO 16 - 20	17 - 21	19 - 22	18 - 22	20 - 23	18 - 21	18 - 21	15 - 17	//	//	//	//	//	//	//	//

Objective Consensus Forecast: Regional Temperature

MENU

OCF Regional Temperature

Date: 2020-12-06

Today

Element: Temperature

Data: OCF D

Plot data on Map: Latest Run Ensemble Mean

12Z only 12Z only
 00Z only 00Z only
 00Z and 12Z 00Z and 12Z

Plot

Map Controls: Google Roadmap

Center

Chart Log Wiki User Manual

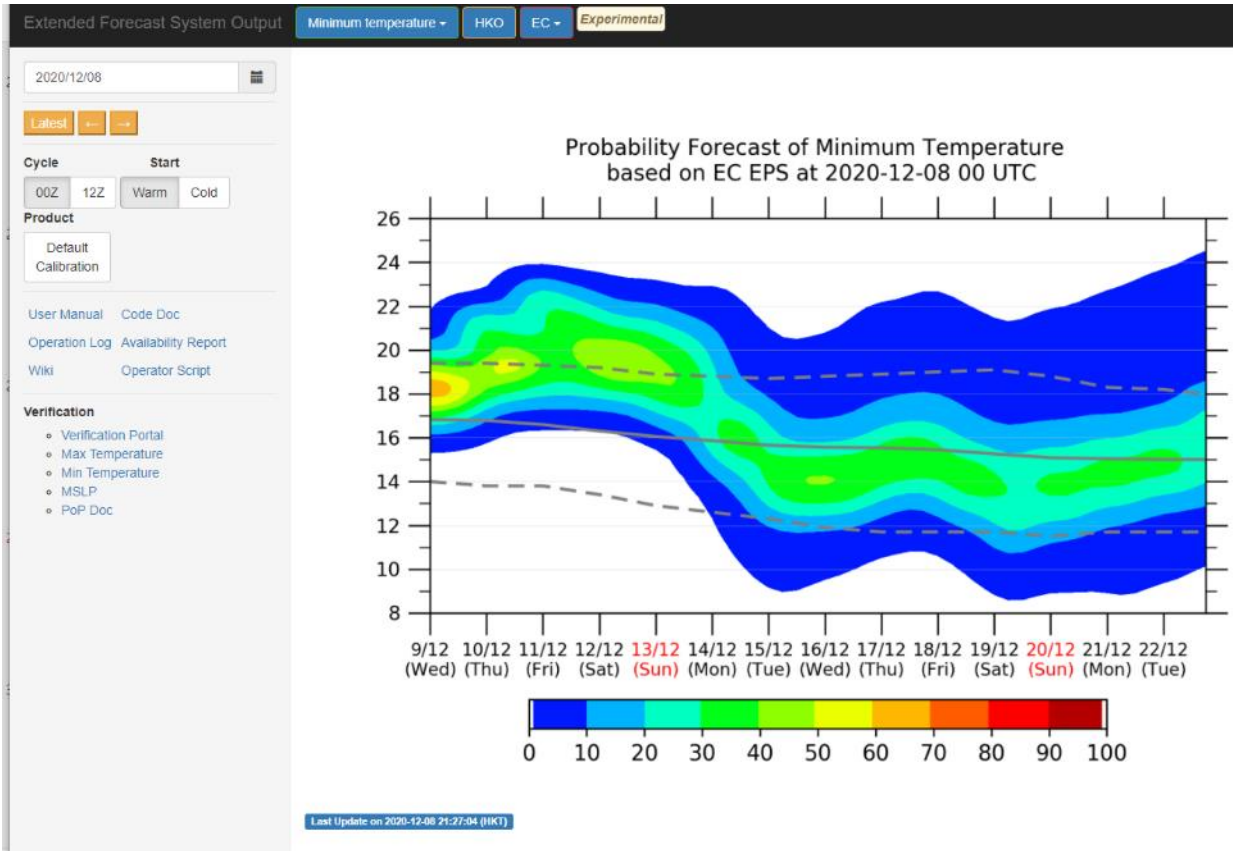
Data: OCF-D Temperature | Forecast: 06 Dec 2020



Remark: Highlighted stations = The 9 reference stations on the [Information on Cold Weather](#) Web Page

	HKO		TKL		SEK		LFS		SHA		TUN		SKG		JKB		HKS		CCH		SSH		TPO		TY1		HKA		TMS		TC	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Actual	15.4	21.6	8.6	22.8	12.2	23.1	12.2	20.9	12.9	22	12.6	21	14.5	20	12.7	22.5	15.1	22.2	14.9	23.7	11.7	23.5	11.9	21.5	13.8	21.9	14.2	20.7	8.8	17.6	9.5	20.6
Ensemble Mean	17.4	23.1	14.7	24.0	15.4	23.8	15.5	23.7	16.1	23.2	15.9	22.9	16.5	22.0	16.4	23.6	17.4	23.5	16.7	23.6	15.5	24.3	15.7	22.5	16.8	23.8	17.4	23.8	10.2	16.9	12.5	19.4
12 UTC 2020/12/05	15.8	21.7	12.5	23.2	13.3	22.7	13.4	22.4	14	22.3	13.9	21.4	14.7	20.9	14.7	22.5	16.1	22.4	15.2	22.4	13.3	23.4	13.5	21.8	15.1	22.8	15.3	21.9	7.3	14.5	9.7	17.6
12 UTC 2020/12/04	16.2	22.5	12.8	23.7	13.6	23.3	13.8	23	14.4	22.9	14.5	22	15.1	21.5	15	23.4	16.5	23	15.7	23.1	13.6	23.8	13.8	22.4	15.5	23.5	15.9	22.7	7.6	15.1	10.1	18.4
12 UTC 2020/12/03	16.3	22.4	12.8	23.7	13.7	23.4	13.9	23.1	14.4	22.8	14.5	22.1	15.1	21.5	15.2	23.2	16.6	22.8	15.9	23.1	13.7	23.9	13.9	22.4	15.6	23.4	16	22.9	7.7	15.4	10.2	18.3
12 UTC 2020/12/02	16.4	23.2	12.9	24	13.9	23.7	14.1	23.6	14.6	23.3	14.6	22.7	15.2	22.1	15.1	24	16.6	24	15.8	24.2	13.9	24.2	14.2	22.7	15.8	24	16	23.7	8.1	16	10.5	19
12 UTC 2020/12/01	16.7	23	13.6	23.8	14.4	23.5	14.7	23.3	15.1	23.1	15.1	22.5	15.6	21.9	15.5	23.6	16.9	23.7	16.2	24	14.4	23.9	14.6	22.5	16.2	23.8	16.6	23.5	8.5	15.9	10.9	18.9
12 UTC 2020/11/30	16.8	22.4	13.5	23.3	14.4	23	14.7	22.9	15.1	22.6	15.2	22.2	15.7	21.5	15.7	22.9	17.1	22.9	16.4	23.3	14.4	23.4	14.6	22.1	16.2	23.3	16.8	23.2	8.6	15.6	11.2	18.4
12 UTC 2020/11/29	17.2	22.9	14.1	24.3	14.9	23.9	14.9	24.1	15.8	23.3	15.5	23	16.1	22.1	16.1	23.5	17.5	23.6	16.8	23.9	14.9	24.5	15.2	22.7	16.6	23.8	17.1	23.8	9.2	16.6	11.8	19.2
12 UTC 2020/11/28	17.6	23.5	14.7	24.3	15.5	24.1	15.5	24.2	16.3	23.5	16	23.4	16.6	22.4	16.5	24	17.8	24.1	17.1	24	15.6	24.5	15.8	22.8	17.1	24.3	17.5	24.4	10	17.2	12.5	19.7
12 UTC 2020/11/27	17.9	23.6	15.2	24.7	15.9	24.5	16	24.5	16.6	23.9	16.4	23.6	16.9	22.6	16.7	24.1	18	24.3	17.5	24.1	16	25	16.1	23.1	17.4	24.6	18	24.3	10.8	17.8	13.1	20.2
12 UTC 2020/11/26	17.4	23.7	14.9	24.9	15.6	24.6	15.7	24.6	16.3	24	16	23.6	16.7	22.8	16.5	24.1	17.5	24.3	17	24.3	15.8	25.2	15.9	23.1	17	24.6	17.5	24.6	10.9	18.1	13.1	20.4
12 UTC 2020/11/25	18.1	23.5	15.5	24.1	16.1	24	15.8	24.1	17	23.3	16.4	23.3	17.1	22.2	17	23.6	17.3	23.8	16.7	23.4	16.1	24.4	16.4	22.5	17.5	24.1	17.9	24.3	11.1	17.7	13.5	19.5
12 UTC 2020/11/24	18.9	24.2	16.7	24	17.3	24.3	16.8	24	18	23.8	17.4	23.2	17.9	22.6	17.8	24.3	17.9	24	17	23.8	17.3	24.5	17.4	22.7	18.4	24.5	18.6	24.8	11.8	18	14.2	20
12 UTC 2020/11/23	19.9	24.1	18.5	25.3	18.9	25.4	18.9	26	19.4	24	19	24.8	19.4	22.8	19.2	24.2	19.8	24.2	19.1	24.4	19.3	26	19.2	23.4	17.5	23.8	20.2	25.8	13.6	18.7	14.2	19.4
12 UTC 2020/11/22	16.2	22	13.5	22.5	14.4	22.3	14.1	22.2	15	21.7	14.5	21.6	15.1	20.5	15.2	22.1	15	21.6	14.6	21.9	14.3	22.8	14.5	21	15.5	22.3	16.1	22.7	11.1	17.1	13.2	19
12 UTC 2020/11/21	18.2	22.6	16.7	23	16.8	22.8	16.9	22.4	17.5	22.4	17.1	22.3	17.7	21.4	17.7	23.1	18.4	23	17.6	23.1	17.2	23.2	17.1	21.6	17.7	23.2	18.4	23.6	13.8	18.2	15.5	20.5
12 UTC 2020/11/20	19.6	24.4	17.3	25	18.1	24.8	18.1	24.6	18.7	24.5	18.2	24.1	18.9	22	19	25.2	19.2	24.7	18.8	24.8	18.4	25.4	18	22.1	19.2	24.8	20	26	14.8	18.6	15.6	21.1

Extended Forecast Portal



- Max / min temperature
- MSLP

Thank you