

# Summer 2023



## No Compromise on Safety

Are you Ready, Resilient and Responsive enough for this summer's challenges?

# SUMMER CAMPAIGN TIMELINE



## 26 May Draft SIB

- Draft SIB for circulation and comment by Task Force/ Advisory Bodies.



## 30 May to 2 June EASA Safety Week

- Virtual event with 7 panel-based webinars over 4 days.
- Covers Cross-Domain, Air Ops, Aerodromes/ GH, Maintenance, Flight Crew Training/ ATO, ATM/ ANS, Cyber
- Recordings will be made available on YouTube



## Week of 5 June SIB and Campaign Material Published

- SIB published.
- Campaign promotion material made available to industry.
- LinkedIn posts used to highlight key themes and topics.
- Podcast interviews.



## Follow Up Activities

- 19 June - Unruly Passengers Week with 2 Webinars and Campaign.
- Summer Task Force Follow Up
- July/August - Further promotion of Occurrence Reporting



# Theme: No Compromise on Safety

Are you Ready, Resilient and Responsive enough for this summer's challenges? Rules provide the baseline, identify and manage your risks and don't forget to look after your people.

## **Ready**

Have enough competent people and the resources you need to manage risks effectively so that you can ensure safe and effective operations.

## **Resilient**

You are prepared for any operational challenges and external threats and support your staff to perform to their best. You don't push the boundaries of the rules and are on guard for risk transfer.

## **Responsive**

You have the mindset to promote safety reporting and encourage collaborative safety conversations. You react positively and quickly to challenges or changing situations and communicate effectively.

Wed 31 May  
(1400-1530)  
ATM/ANS - MET

[Registration Link](#)  
[Youtube Livestream](#)

Slido:

- #EASASummer2023
- Code oowwqa

## Severe weather and traffic during summer

1

Opening of Session  
Augustin Klus (Moderator)

2

Panel Discussion  
Philipp Wächter - Austrocontrol  
Klaus Sievers – ECA  
Viktoria Fitova – Bulatsa  
Christopher Peregrine- NM



# ECA

European Cockpit Association

## Weather: flying safely

Klaus Sievers  
[Klaus.Sievers@VCockpit.de](mailto:Klaus.Sievers@VCockpit.de)



# What does ECA stand for ?

## Our Mission

ECA represents the collective interests of its Member Associations at European level, striving for the **highest levels of aviation safety** and fostering **social rights** and **quality employment** for pilots in Europe.



**“Piloting Safety”**





# Content

## Relevant Information

**Deliver relevant MET (meteorological) information into the pilots' hands. Do not simply store information in computers**

- » Make the information human readable, i.e. good graphical representations
- » Ensure access to the information, the "connectivity"
- » Ban black and white printers for MET documentation

## Coordination

**Ensure that ATC/ATM works with relevant MET across borders, in a coordinated way**

- » Human readable MET information at controller and supervisor positions
- » Arrangements, 'playbook' - style, pre-agreed management of traffic

## MET Portal

**Build a MET-Portal for Europe** such as [www.aviationweather.gov](http://www.aviationweather.gov) for easy access to information and showcase developments ("test bed") to real pilots

- » Cooperation between MET-Services in Europe
- » Cooperation with research institutions

## GNSS Dependence

**Re-think the dependence of SESAR on the GBAS** and other GNSS approach procedures in light of the research results of SESAR project 15.3.4 – Task 6: GNSS vulnerability assessment. Ensure that adequate conventional navigation facilities are retained and procedures for degraded GNSS operations are developed.

## TAF

**Halve the time between TAF (Terminal Aerodrome Forecast) from 6 hrs to 3 hrs in the Europe**

## PILOTS' VISION ON WEATHER

SESAR  
PROGRAMME

PROVISION OF  
WEATHER DATA  
AND CHARTS

2023 visualization



**ECA** Piloting Safety  
European Cockpit Association



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European Cockpit Association

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### Demonstration Details and Schedule

- Number of pilots trained:
  - Delta: 367
    - 767-300, 767-400, 777, A330, A350 (167 total)
  - United: ~10 Line Check Airmen
    - 777 and 787
  - American: ~40 Line Check Airmen
    - 777-200
- Flight Routes:
  - CONUS to/from international destinations
    - Inter-Tropical Convergence Zone
  - Route seen beyond range of onboard radar
    - Improved situational awareness
- Demonstration schedule:
  - Began July 2018 with Delta
  - United and American began spring 2019
    - Gov't shutdown slowed start
  - Ended 25 December 2019
  - 3 weeks in Aug-Sept, average 26 flights/day



### Remote Oceanic Meteorology Information Operational (ROMIO) Demonstration

Cathy Kessinger<sup>1</sup>,



ECA

European Cockpit Association



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- » Make the information human readable, i.e. good graphical representations
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### Demonstration Details and Schedule

## Conclusions:

- Number of pilots trained:
  - United: ~10 Line Check Airmen
  - 777 and 787
- fuel saving
- less time
- better Crew Coordination
- improved situational awareness



NCAR

RESEARCH APPLICATIONS  
LABORATORY

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kessinger@ucar.edu

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Remote Oceanic Meteorology Information  
Operational (ROMIO) Demonstration

Cathy Kessinger<sup>1</sup>,



ECA

European Cockpit Association

# Hot topic: Damage and Injuries due to “Clear Air Turbulence”

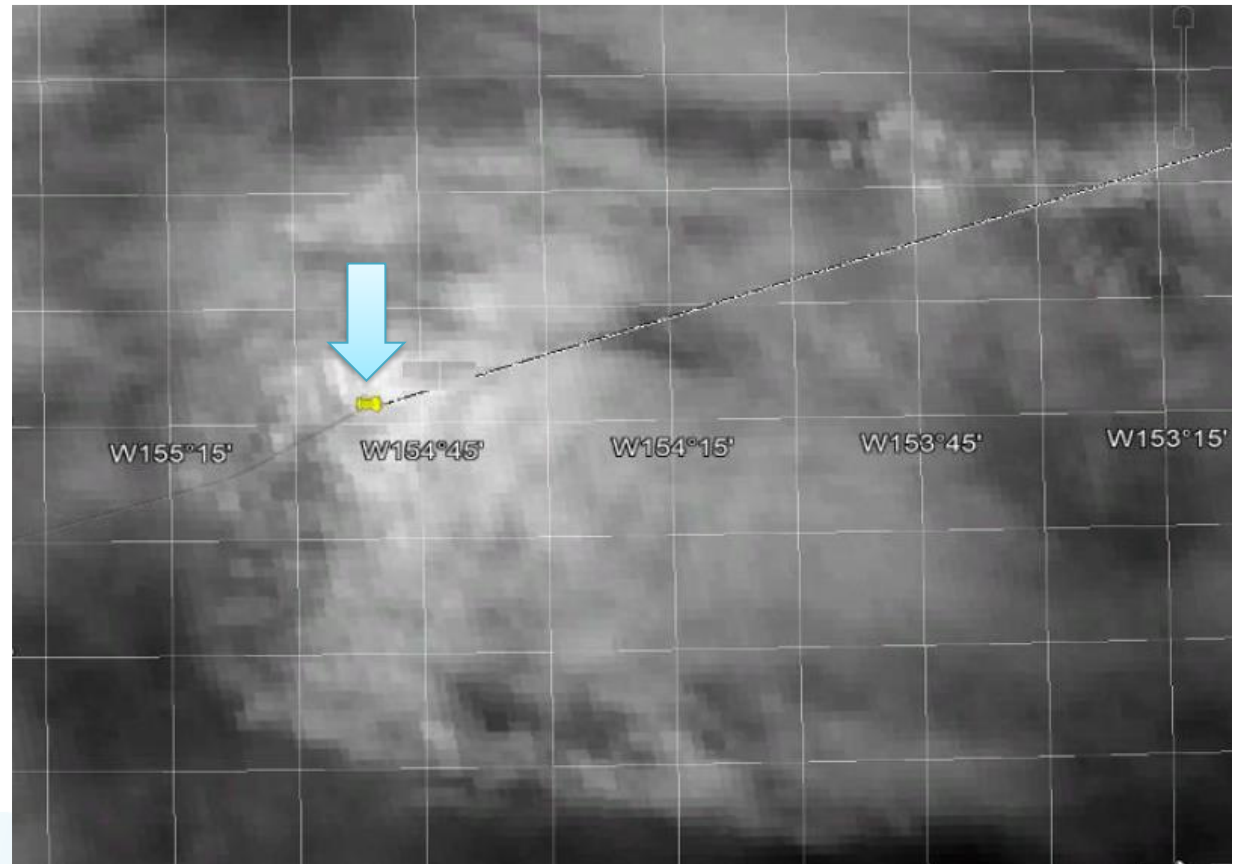


severe turbulence : pilots' view

# Hot topic: Damage and injuries due to “Clear Air Turbulence”

Often, not CAT but  
Convectively  
Induced  
Turbulence !

Aircraft in  
convective cloud:  
30+ injured.



# Hot topic: Damage and injuries due to “Clear Air Turbulence”

Why ?



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## Coordination

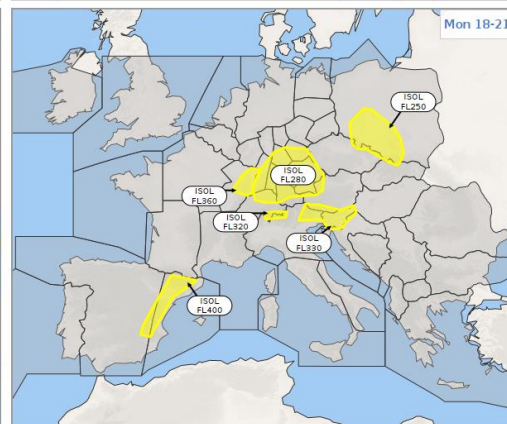
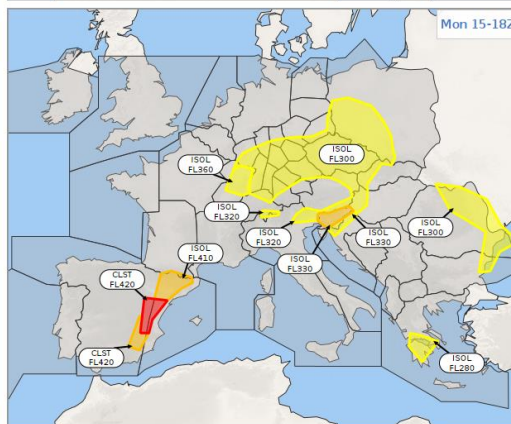
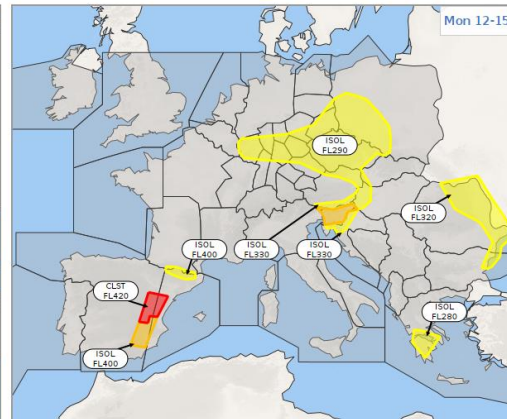
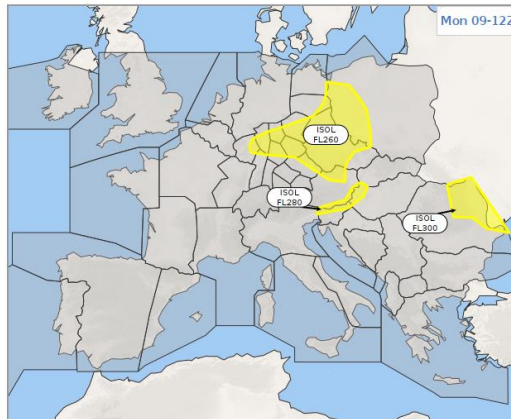
Ensure that ATC/ATM works with relevant MET across borders, in a coordinated way

- » Human readable MET information at controller and supervisor positions
- » Arrangements, 'playbook' - style, pre-agreed management of traffic



### D-0 Cross Border Convection Forecast issued 01/08/2022 07:00 UTC, valid 01/08/2022

Forecast lead:  
Belgium



Stable conditions due to a ridge of high pressure over France, Italy and the Balkans.

A trough is still situated along the extreme east of Europe enhancing instability over E Romania (Tops FL300-320). The activity decreases during the day as the trough is moving eastwards.

Weak frontal structures are situated over Central Europe and will bring some instability. This will result in rather shallow convection (Tops FL250-320). Very isolated Tops can reach FL360.

ISOL CBs, mainly caused by daytime heating appear over Spain and can turn into CLST in afternoon (Tops FL400-420). The activity will cease during the evening.

Very likely	ISOL	CLST	WSPR
Likely	ISOL	CLST	WSPR
Less likely		CLST	WSPR
Occurrence of CB clouds	Isolated	Clustered	Widespread



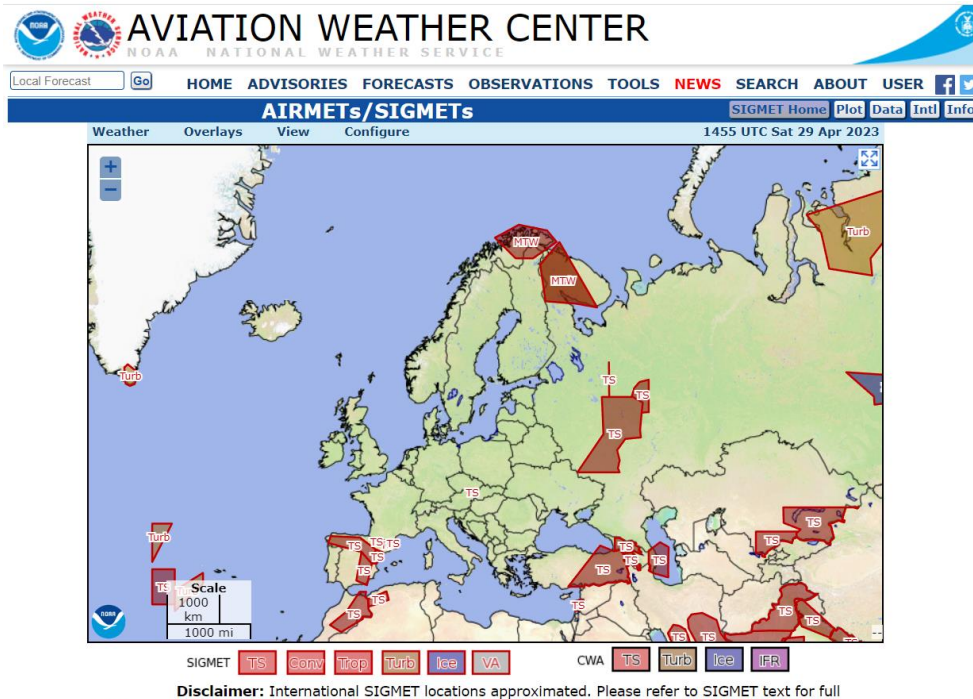
**ECA**

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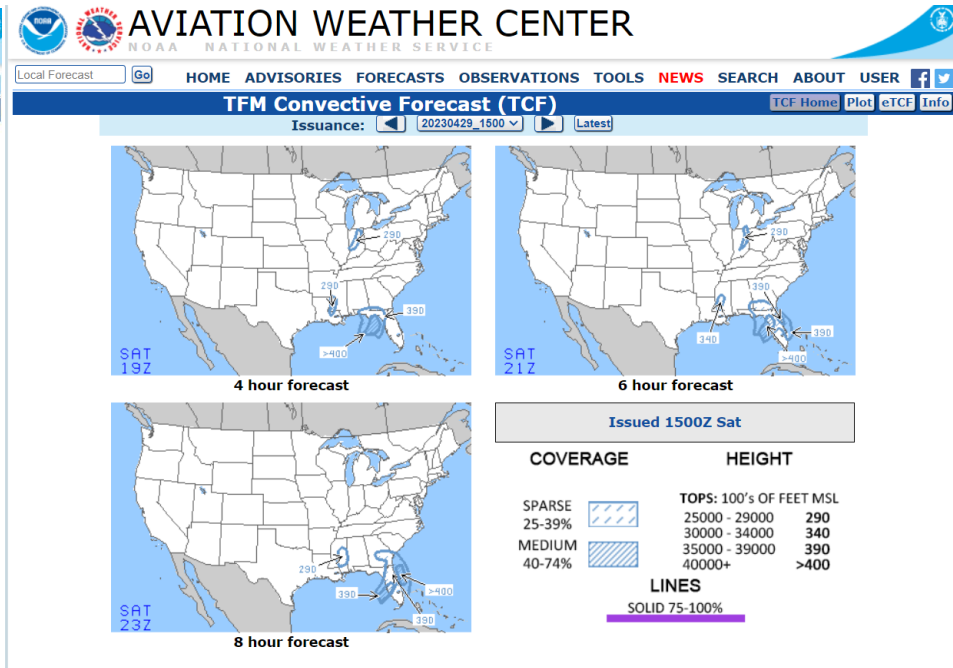
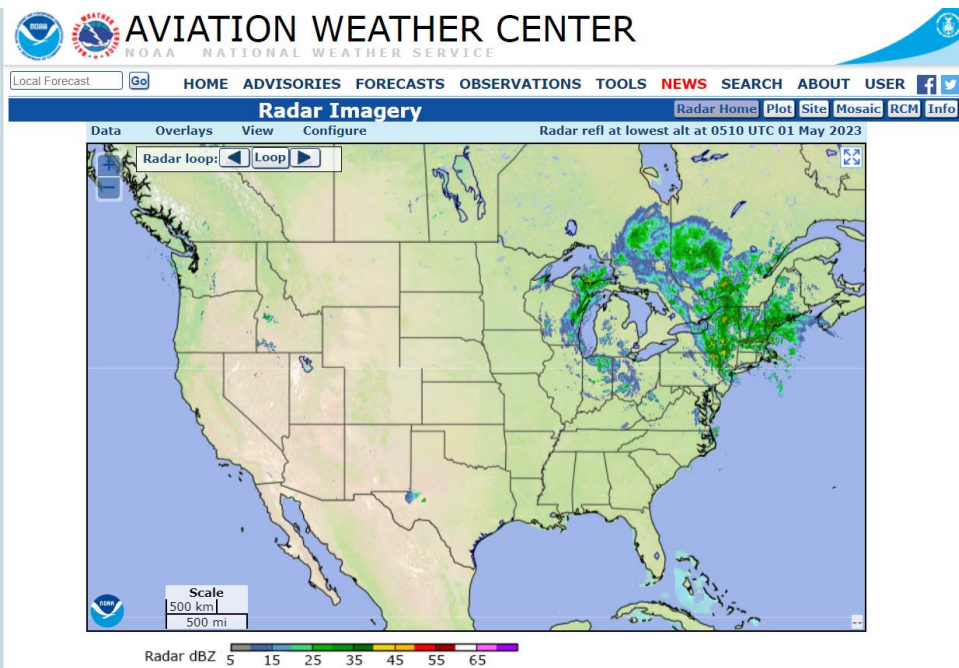
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- » Cooperation between MET-Services in Europe
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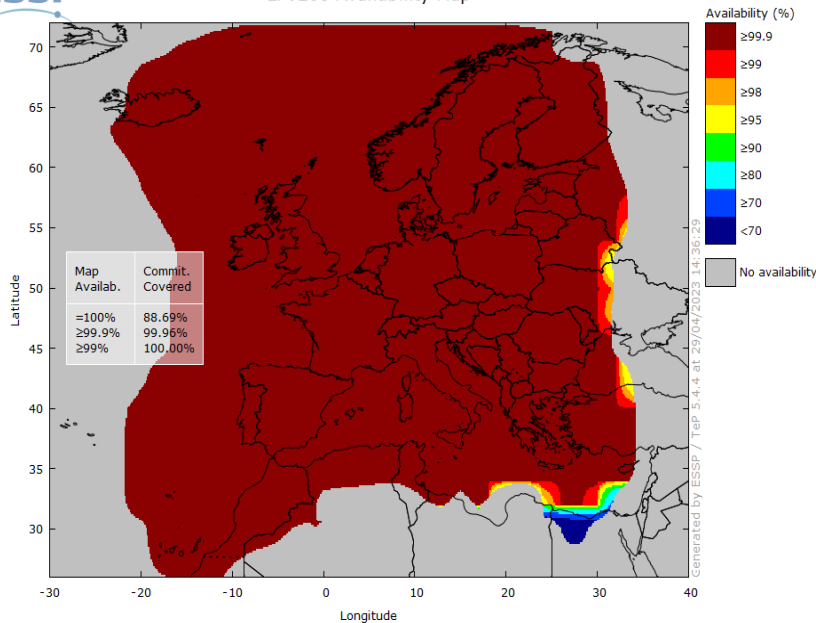
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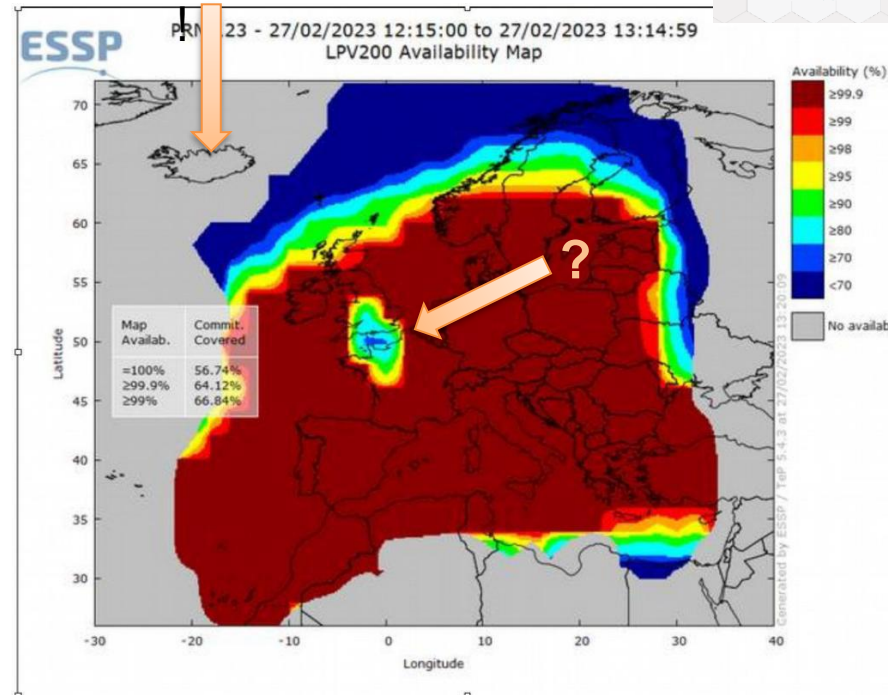
Re-think the dependence of SESAR on the GBAS and other GNSS approach procedures in light of the research results of SESAR project 15.3.4 – Task 6: GNSS vulnerability assessment. Ensure that adequate conventional navigation facilities are retained and procedures for degraded GNSS operations are developed.

SIS Op - 29/04/2023 13:30:00 to 29/04/2023 14:29:59  
LPV200 Availability Map



EGNOS: normal day, 29.4.2023

LPV ? NO



EGNOS: coverage severely reduced due to space weather.

Pilots don't get ICAO SWx advisories !  
EASA MET.TR.215 is being ignored.



Re-think the dependence of SESAR on the GBAS and other GNSS approach procedures in light of the research results of SESAR project 15.3.4 – Task 6: GNSS vulnerability assessment. Ensure that adequate conventional navigation facilities are retained and procedures for degraded GNSS operations are developed.

# SPACE WEATHER: IT IS REAL !!!

## 4 AIRCRAFT, 2 AIRPORTS >

## NEAR SIMULTANEOUS LPV FAILURE !

Report from Canadian CADORS system. Occurrence: 25 Feb 2023

Report:

2023Q0875

Date Entered:

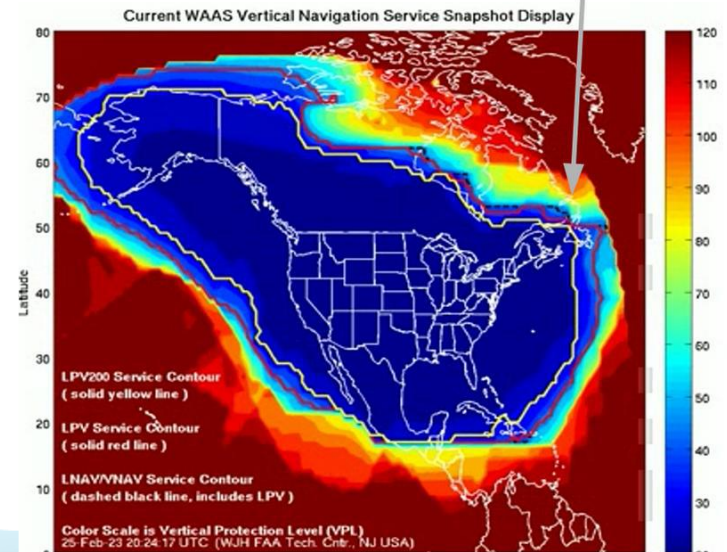
2023-03-07

Narrative:

On approach for Runway 25 at Kuujuaq, QC (CYVP), an Exact Air Inc. Beech A100 (C-FLT5/ET823) from Tasiujaq, QC (CYTQ) to Kuujuaq, QC (CYVP) mentioned having lost the localizer performance with vertical guidance (LPV) in lateral navigation (LNAV) and during the previous approach for CYTQ. Following this, an Air Inuit Ltd. de Havilland DHC-8-314 (C-FIAI/AIE827) from Kangisualujuaq, QC (Georges River) (CYLU) to Kuujuaq, QC (CYVP) mentioned having the same problem when on approach for Runway 25. An Air Inuit Ltd. de Havilland DHC-6-300 (C-GTYX/AIE659) from Kangisualujuaq, QC (Wakeham Bay) (CYKG) to Kuujuaq, QC (CYVP) that was following C-AIE827 had the same problem on approach for Runway 25 at CYVP and for its previous approach at CYKG.

ICAO SWx ADVISORY ? None known

NOTAM ? None issued



# TAF

Halve the time between TAF (Terminal Aerodrome Forecast)  
from 6 hrs to 3 hrs in the Europe

TAF EDDF 290500Z 2906/3012 24004KT 9999 BKN040  
BECMG 2906/2908 31008KT  
BECMG 2918/2921 02005KT SCT040  
BECMG 3006/3009 03010KT=

TAF EFHK 280535Z 2806/2906 VRB02KT 9999 FEW012  
SCT025  
BECMG 2807/2809 20010KT  
TEMPO 2810/2815 7000 -SHRA FEW040CB  
PROB30 2820/2824 BKN006  
BECMG 2822/2824 26006KT=

03:00z ??????????

TAF EFHK 280230Z 2803/2903 VRB01KT 9999 BCFG  
FEW005  
TEMPO 2803/2806 2000 BKN002  
**PROB40 2803/2806 0600 FZFG**  
BECMG 2808/2810 20010KT  
TEMPO 2810/2815 7000 -SHRA FEW040CB  
PROB30 2820/2824 BKN006  
BECMG 2822/2824 26006KT=

TAF EDDF 282300Z 2900/3006 24004KT 9999 SCT045  
BECMG 2900/2903 BKN045  
BECMG 2905/2907 30009KT  
BECMG 2918/2920 03005KT SCT040  
BECMG 3005/3006 04010KT=

TAF EFHK 272329Z 2800/2824 24007KT CAVOK  
PROB30 2801/2806 0600 FG BKN002  
TEMPO 2810/2815 7000 -SHRA FEW040CB  
PROB30 2820/2824 BKN006=





# Conclusion

## Mandate needed:

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- ACARS
- Connectivity
- live wx on eFB
- Wx radar training
- Wx radar testing

Cross-Border  
forecast for Pilots

MET Portal  
for Europe

Respect  
Space Weather -  
retain non-space  
infrastructure

More frequent  
forecasts

## PILOTS' VISION ON WEATHER



SESAR  
PROGRAMME

PROVISION OF  
WEATHER DATA  
AND CHARTS

2023 visualization



**ECA** Piloting  
Safety  
European Cockpit Association



**ECA**

European Cockpit Association

## Sources and links



Slide # 3 <https://www.eurocockpit.be/news/pilots-vision-weather>

Slide # 5 <https://egnos-user-support.essp-sas.eu/aviation-portal/aviation-dashboard>

Slide # 5 <https://ifalpa.org/publications/library/space-weather-advisories--3595>

Slide # 6 [https://www.nstb.tc.faa.gov/RT\\_VerticalProtectionLevel.htm](https://www.nstb.tc.faa.gov/RT_VerticalProtectionLevel.htm)

Slide # 7 <https://aviationweather.gov/>

Slide # 9 Source: DWD / Eumetnet

Slide # 10 & 11

Remote Oceanic Meteorology Information  
Operational (ROMIO) Demonstration

AMS 20<sup>TH</sup> ARAM Conference, paper 12.1  
12-16 January 2020

Slide # 13 Picture: created using NOAA, Flightaware , Google Earth

Slide # 14 Source of pictures: a colleague. Aircraft c/s overwritten in radar picture.





Thank you for listening !

Klaus Sievers  
Klaus.Sievers@VCockpit.de





**BULATSA**

BULGARIAN AIR TRAFFIC SERVICES AUTHORITY

## Specific weather phenomena during summer

Are we Ready, Resilient and Responsive for  
summer weather challenges?

*Viktoria Fitova, aeronautical meteorological forecaster, BULATSA*

The invisible part of flight

The invisible part of flight

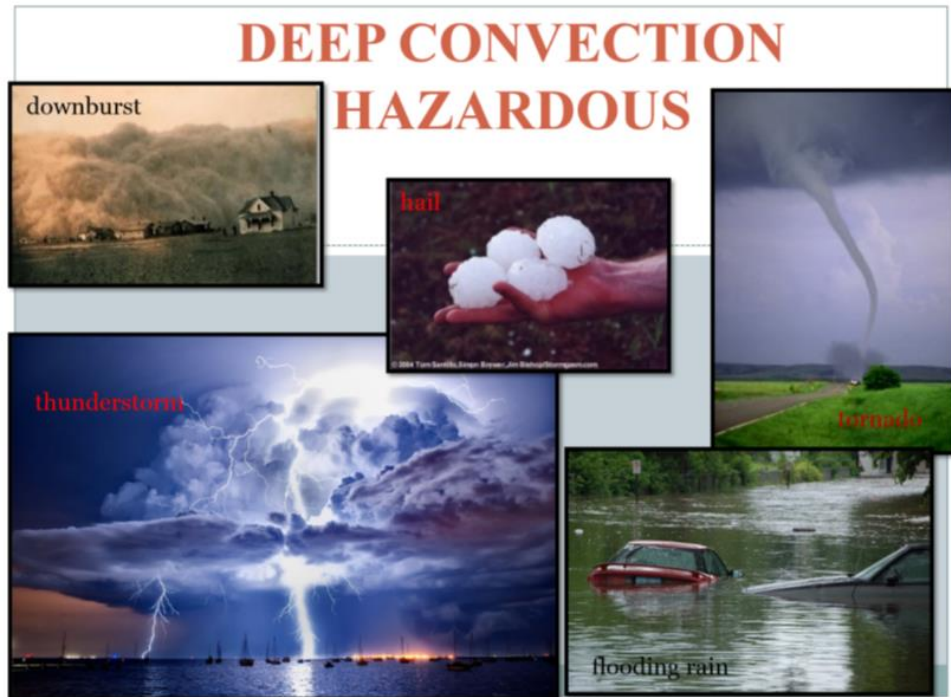
# The most important summer weather phenomena

- Convective clouds and associated significant weather phenomena
  - ☐ *Turbulence*
  - ☐ *Lightening*
  - ☐ *Wind shear and squalls*
  - ☐ *Hail, icing*
- Extreme heat



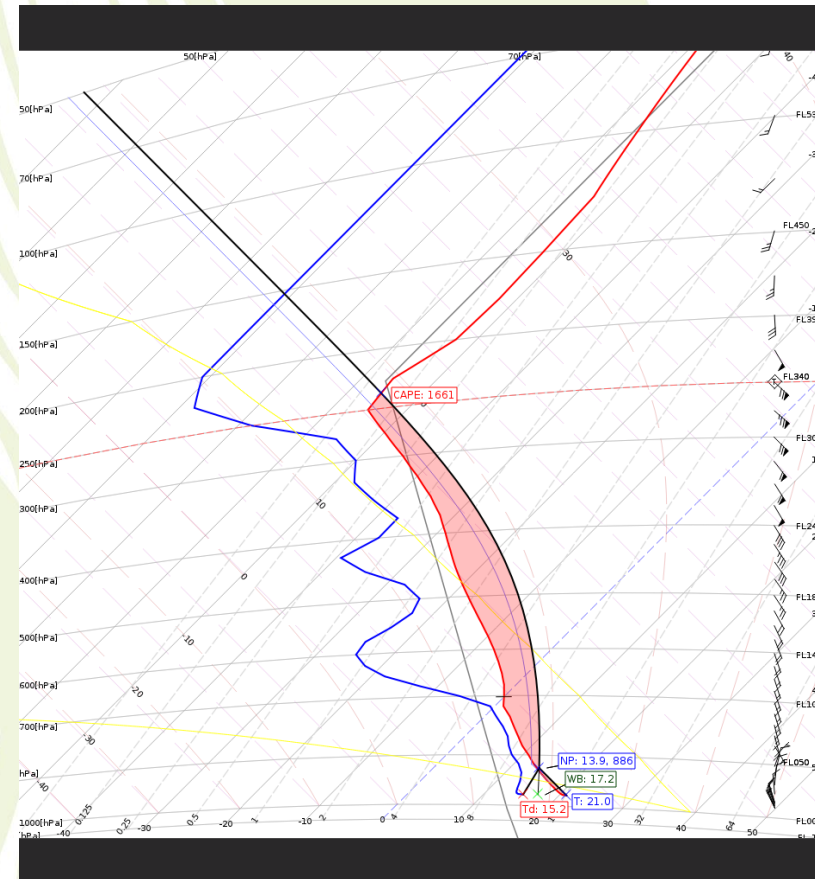
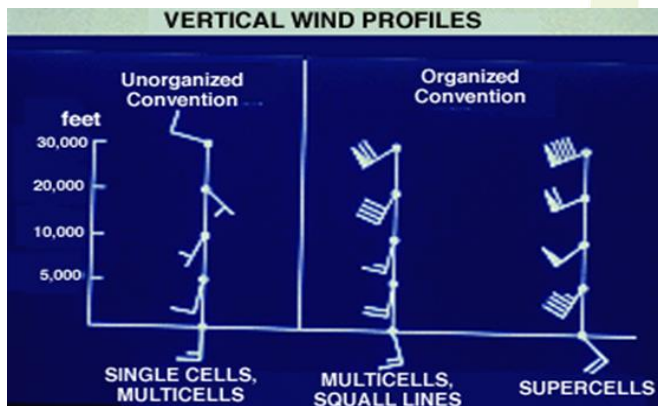
# The effect of convection in aviation stakeholders

- ATS
- FMP
- Pilots
- Airports
- Aeronautical Meteorological Service Provider



# Main ingredients and triggers of convection

- Instability of the air;
- Moisture;
- CAPE (Convective Available Potential Energy);
- Vertical profile of updraft speed.



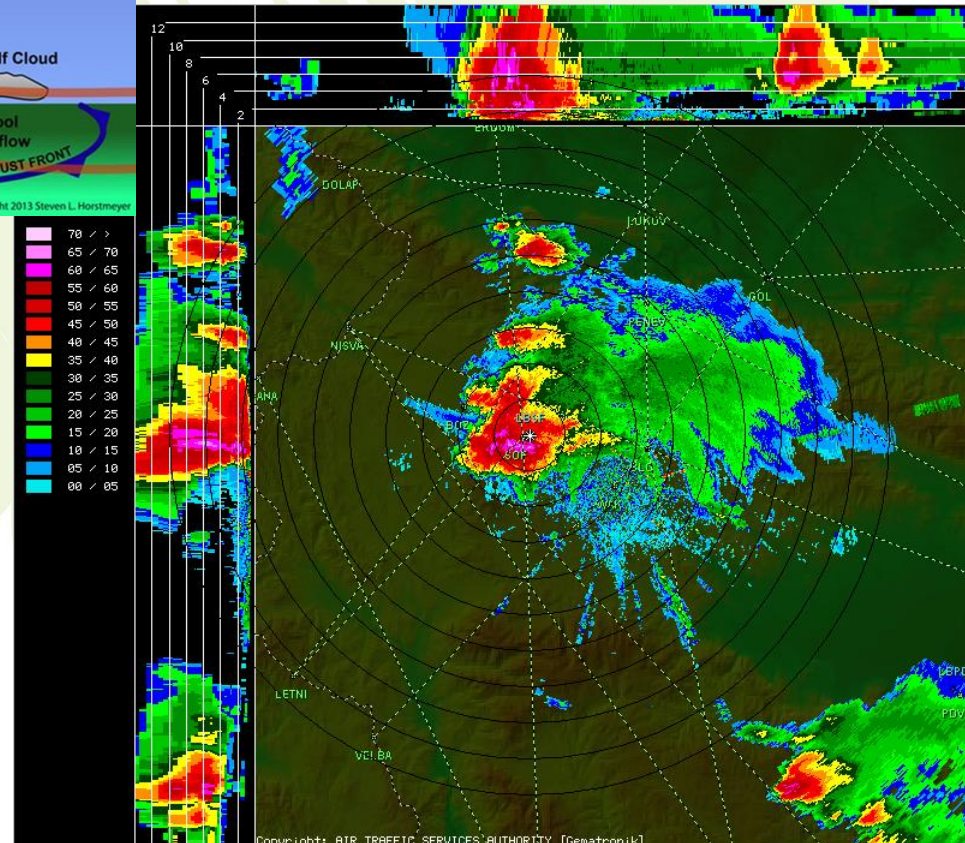
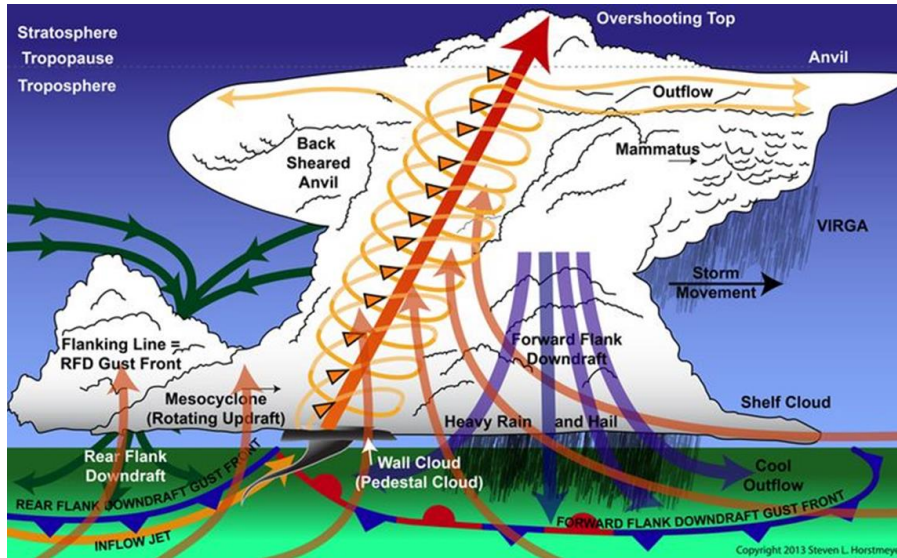




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РЪКОВОДСТВО НА ВЪЗДУШНОТО ДВИЖЕНИЕ

# The result of convection – Cb cloud



# Climate change or change of user needs

According to **IPCC** –

The Intergovernmental Panel on Climate the global warming is 1.5°C.

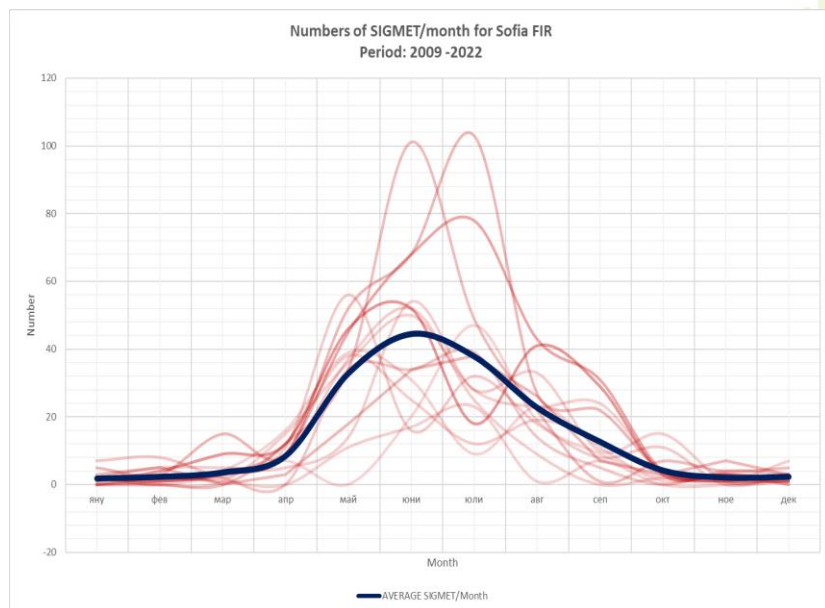
**AR6 Climate  
Change 2022:  
Impacts,  
Adaptation and  
Vulnerability**

February 2022

**AR6 Synthesis Report: Climate  
Change 2023**

March 2023

The main impact based on climate change is the increase in frequency of occurrence of extreme phenomena and an increasing in the intensity of events.





# ..... or User Needs

- User needs for accurate, well visualized forecast;
- Forecast that is available sufficiently in advance for tactical and pre-tactical planning;
- Forecast that reflect not only one FIR, but is extended with surrounding area, and in best case cover big territory (e.g. Europe);



The invisible part of flight



# The old fashion aviation meteorology

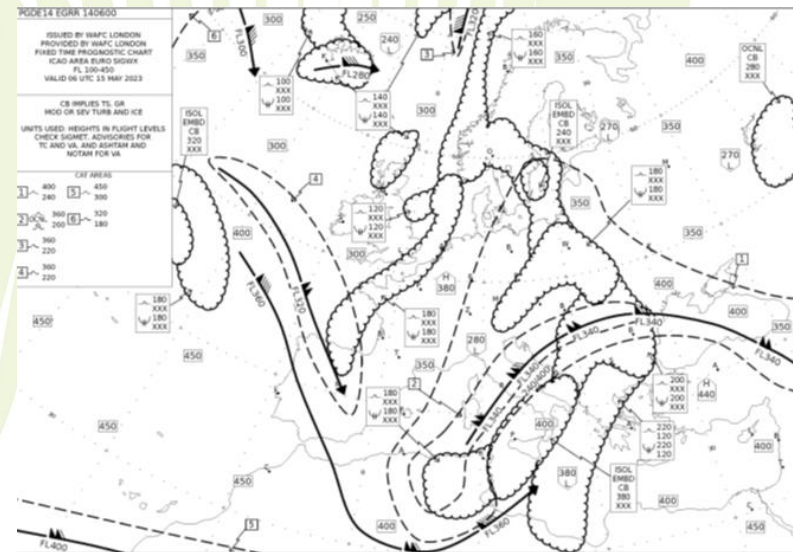
- SIGMET

LECM SIGMET 2 VALID 150600/151000 LEVA-

LECM MADRID UIR SEV TS FCST WI N4456 W00730 - N3840 W00315 -N3741 W00142 - N3855 W00119 -  
N4425 W00420 - N4456 W00730 FL240/350 MOV SE 40KT NC=

- FORECAST FOR THE AIRPORTS - *TAF, TREND*

- SIGNIFICANT WEATHER CHARTS



# Evolution of forecasts and warnings

- **SIGMET coordination**

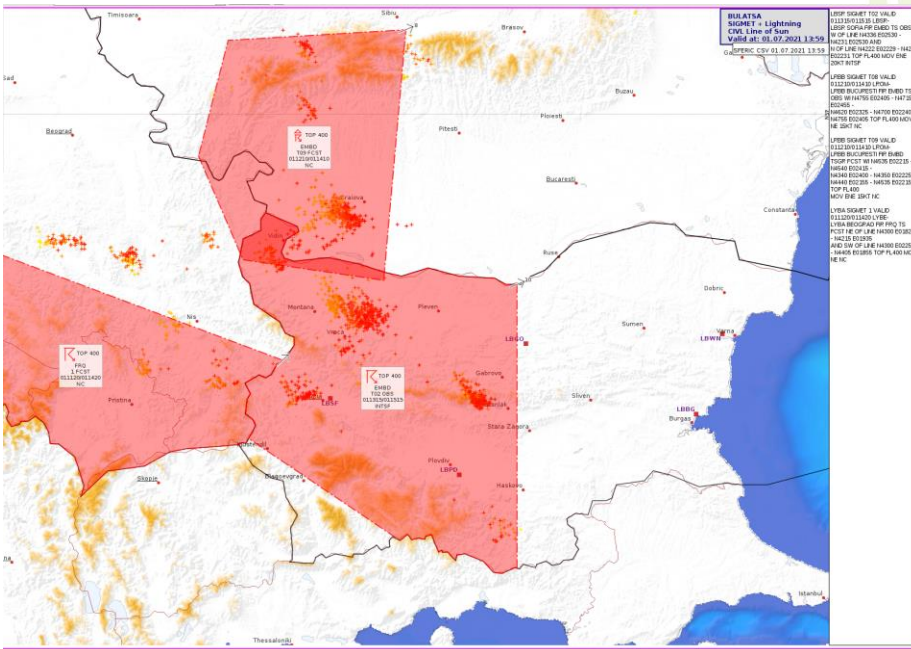
In case of meteorological phenomena that affect two or more neighbors FIRs the associated meteorological watch office make needed coordination for synchronization of information, for example for cloud top, severity of phenomena, direction of movement, etc.

- **Development to new forecasts according to user needs (Pilots, FMP, ATCO)**

Every meteorological service provider has developed and provide regular forecasts for associated ATS and FMP, in some cases special forecast for airlines

- **Impact based forecast**

## The current situation and future



- Synchronized SIGMETs
- Graphical SIGMETs

# The current situation and future

- Issuance of very specific forecast (for local phenomena, or for specific aviation activity)
- Issuance of Impact-based forecast — a shift from describing and communicating what the hazard will be to what the hazard might do.



The invisible part of night

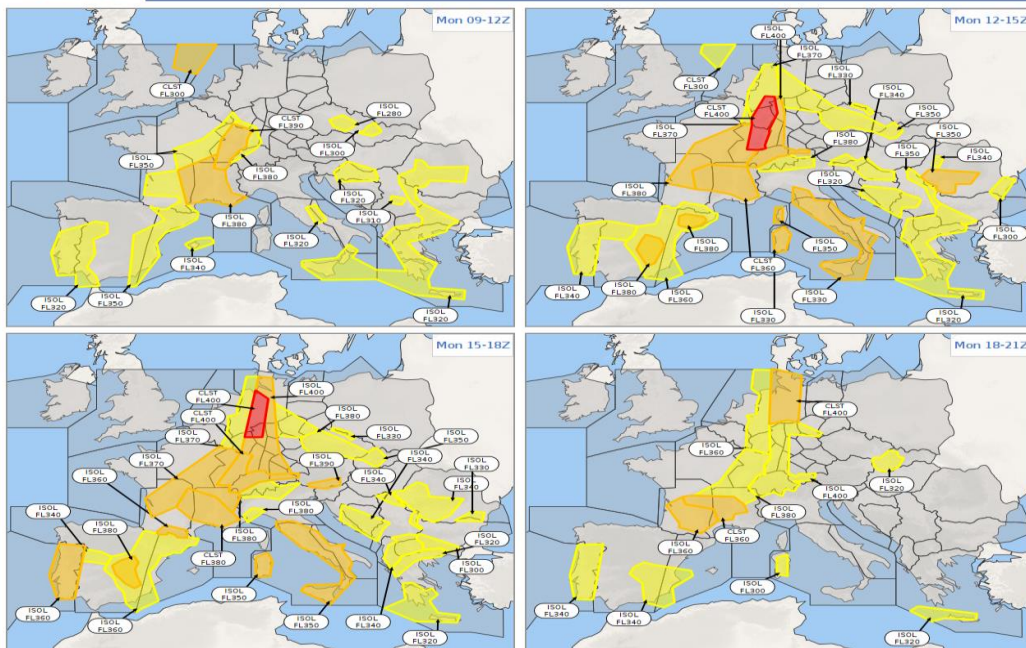


# Cross border convection forecast over Europe



**D-1 Cross Border Convection Forecast**  
issued 21/05/2023 09:00 UTC, valid 22/05/2023

Coordinated by:  
Austria



The main focus for CB/TS is across France, Switzerland and Germany, where clusters are rather likely to occur tomorrow. (Marseille FIR, Reims FIR, Switzerland FIR, Langen FIR, Bremen FIR)

The convection is expected to start in Reims FIR already right before 09 UTC. The peak activity will then shift from Reims FIR to Langen FIR in the mid afternoon and move to Bremen FIR in the late afternoon and evening. Tops will reach up to FL400.

Overnight, the thunderstorm activity is expected to progress eastward, gradually weakening but probably not completely dying out.

Very likely	ISOL	CLST	WSPP
Likely	ISOL	CLST	WSPP
Less likely		CLST	WSPP
Occurrence of CB clouds	Isolated	Clustered	Widespread

The Cross Border Convection Forecast is provided by the participating meteorological services



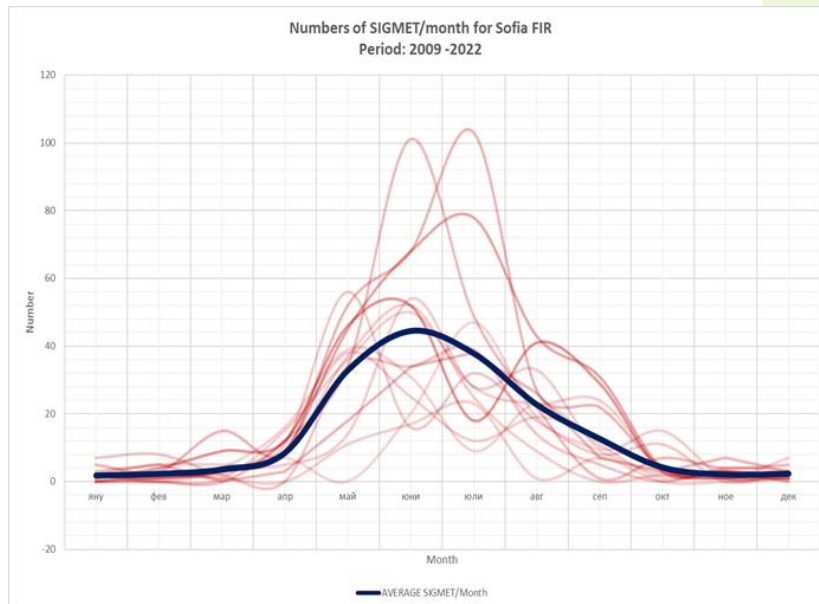


# Aeronautical meteorological service provider

## Increase in type and number of forecast and warnings

- Increase of coordination between meteorological services providers and air traffic services providers/other aviation stakeholders

## Increased workload for aeronautical forecaster



The invisible part of flight

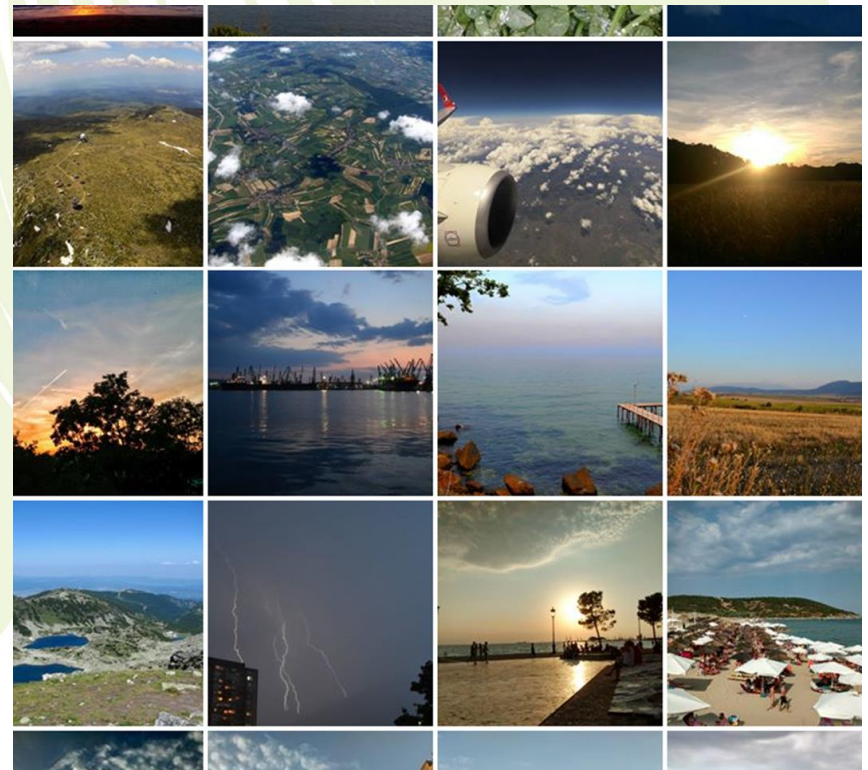


**BULATSA**

РЪКОВОДСТВО НА ВЪЗДУШНОТО ДВИЖЕНИЕ

- Thank you for the attention!

# Questions?



The invisible part of flight

# The impact of weather on ATS operation

Philipp Wächter, Safety Manager, Austro Control

01.06.2023



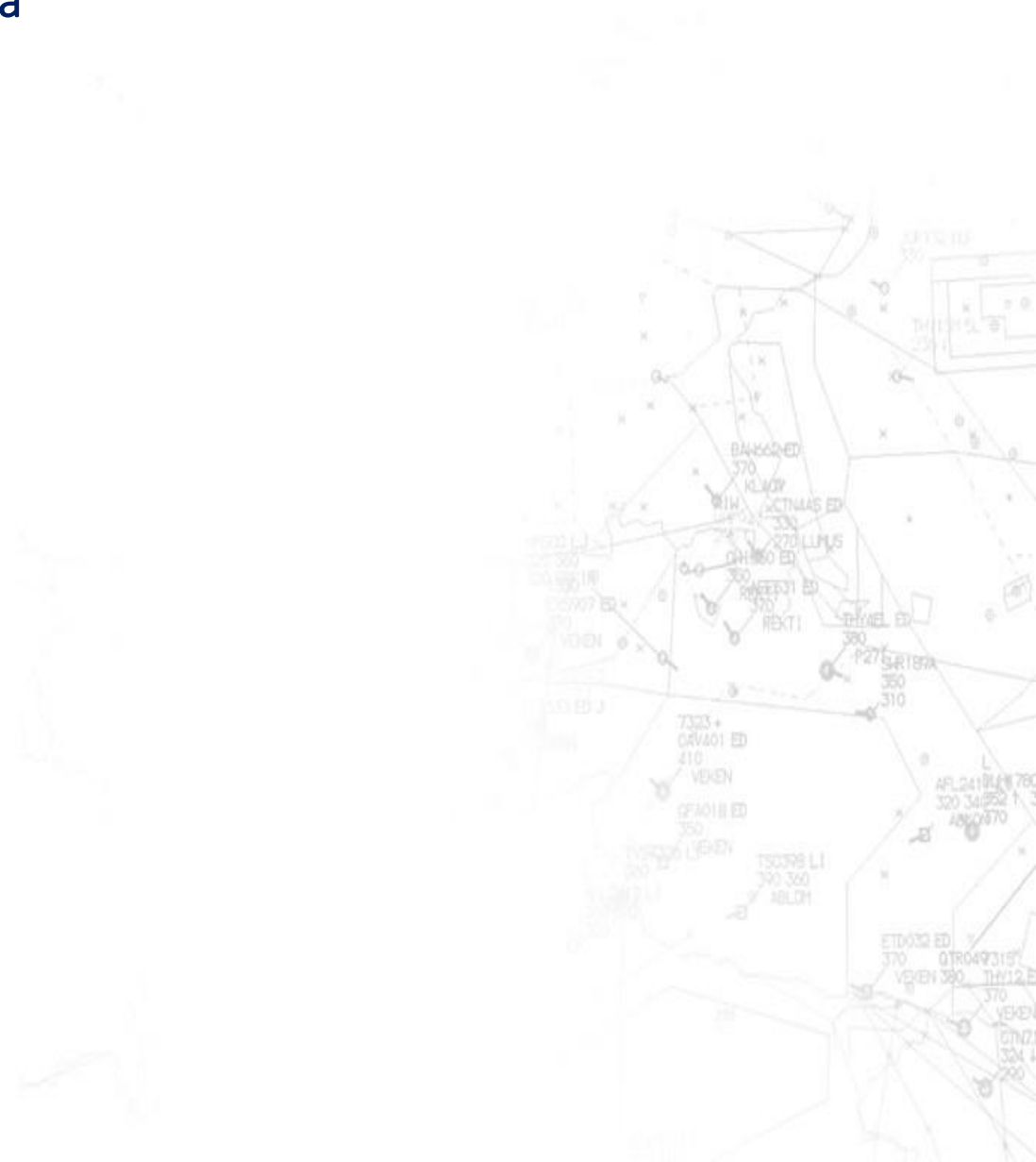
# Impacting weather phenomena

## ➤ En-route environment

- CB/thunderstorms
- Turbulence

## ➤ Aerodrome environment

- rain showers
- fog
- snow



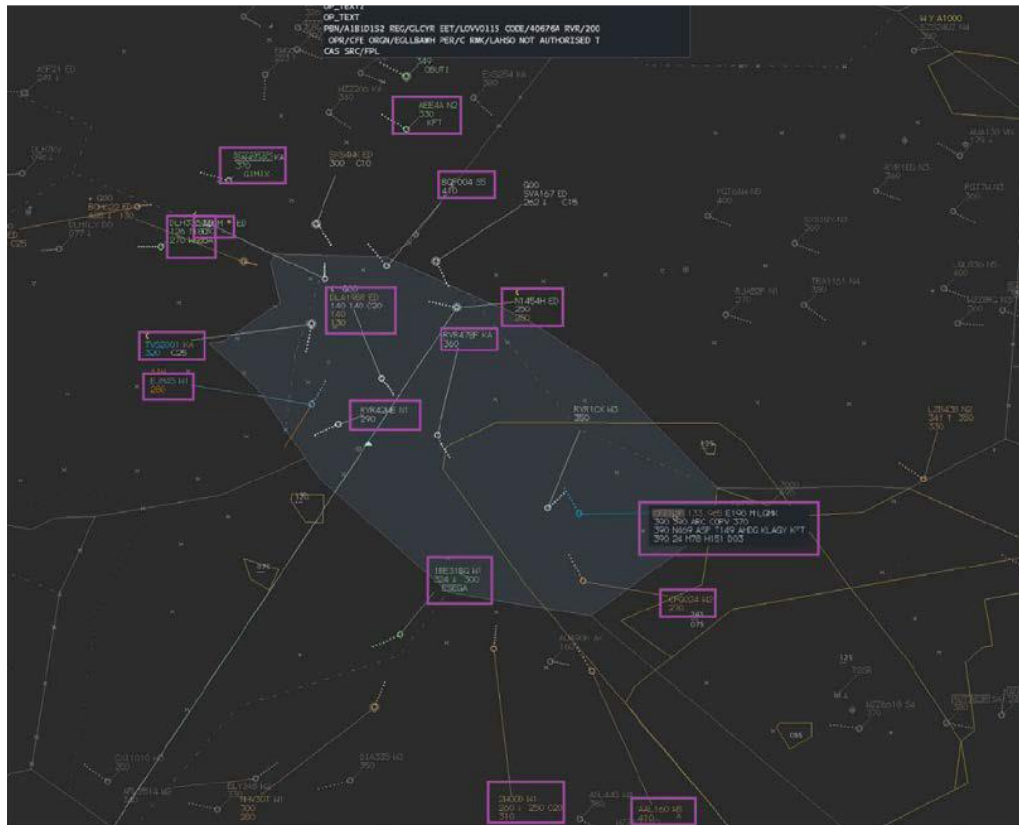
## Effect of CB/ thunderstorms

- CBs within a sector limits usable airspace
- CBs in adjacent sector can lead to a high number of flights deviating into neighboring sector
- possible aircraft turns without announcement by pilot
- Restricted use of **MidTermConflictDetection**
- pilots unable to fly standard SIDs/STARs/Holdings/MAPPs
- unreliable occupancy counts due to intruder flights
- unreliable occupancy counts due to unpredictable traffic flow because of deviations
- increased frequency load due to deviation requests
- FPL –modifications
- no more FPL-adherence
- high coordination effort
- risk of overload situation/loss of situational awareness





### Example: sector with intruder flights due to CB





## comparison of frequency load

Similar situation (same sector, same amount of traffic and vertical movements),  
with (figure1) and without (figure2) deviating traffic

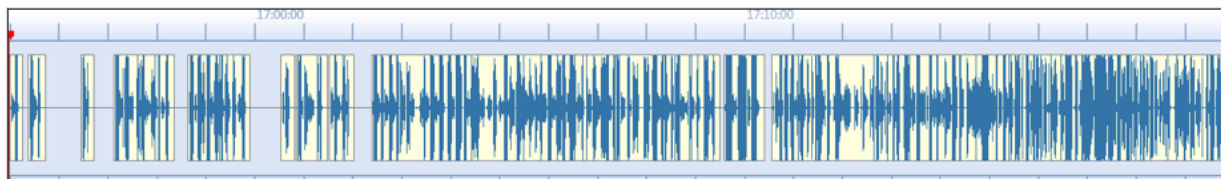


figure1

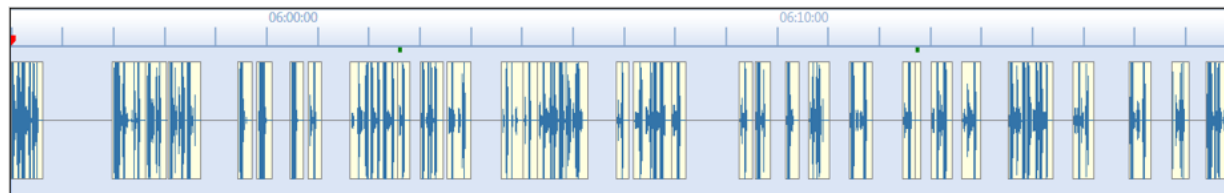
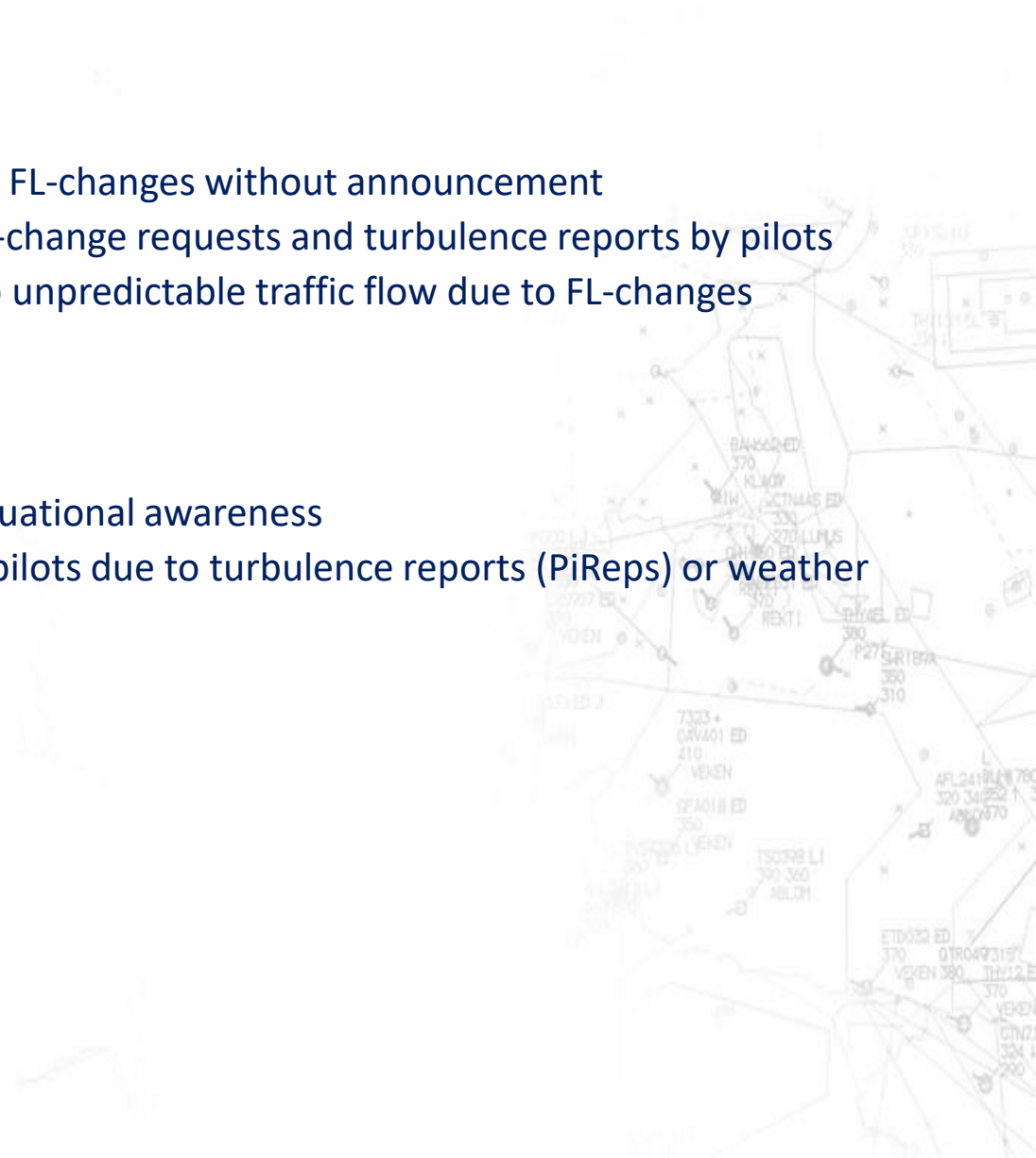


figure2



## Effect of turbulence

- ATCOs have to expect level busts or FL-changes without announcement
- increased frequency load due to FL-change requests and turbulence reports by pilots
- unreliable occupancy counts due to unpredictable traffic flow due to FL-changes
- no more FPL-adherence
- FPL –modifications
- high coordination effort
- risk of overload situation/loss of situational awareness
- certain flight levels are avoided by pilots due to turbulence reports (PiReps) or weather forecast





- increased spacing
- increased separation (no visual reduction possible)
- reduced capacity
- low vis procedures (no conditional clearance, increased spacing on ground, ...)
- increased coordination with airport, snowcleaning, deicing

## Reaction of ATS in case of weather impact

### Long-term:

- ❖ rostering additional stand-by staff (for possible unforeseen sector split)

### Mid-term (2-3h in advance):

- ❖ capacity adaption
- ❖ sector regulation

### Short-term:

- ❖ sector split (if staff is available)
- ❖ arrangement with adjacent sectors/units to simplify coordination and processes
- ❖ additional ATCO at the sector (if staff is available)
- ❖ CDM adaptations



- in-time and accurate forecast of thunderstorm and turbulence, inclusive regularly updates
- joint MET forecast together with adjacent units & associated regulations coordinated between concerned units
- sufficient number of trained staff
- co-operating/similar ATC-systems in europe to provide automated data exchange with all adjacent units

Thank you!

**Philipp Wächter**

Safety, Security & Quality Management/ SQ  
ACG Safety Manager

Austro Control GmbH  
Schnirchgasse 17  
1030 Wien

Tel +4351703.1057  
Mobil +43664 9648833  
e-mail [philipp.waechter@  
austrocontrol.at](mailto:philipp.waechter@austrocontrol.at)



# Network Weather Procedures

Supporting  
European  
Aviation



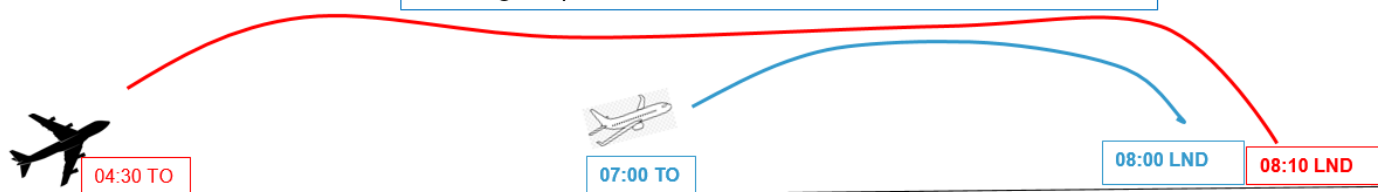
FOUNDING MEMBER OF  
**sesar**  
JOINT UNDERTAKING

NETWORK  
MANAGER

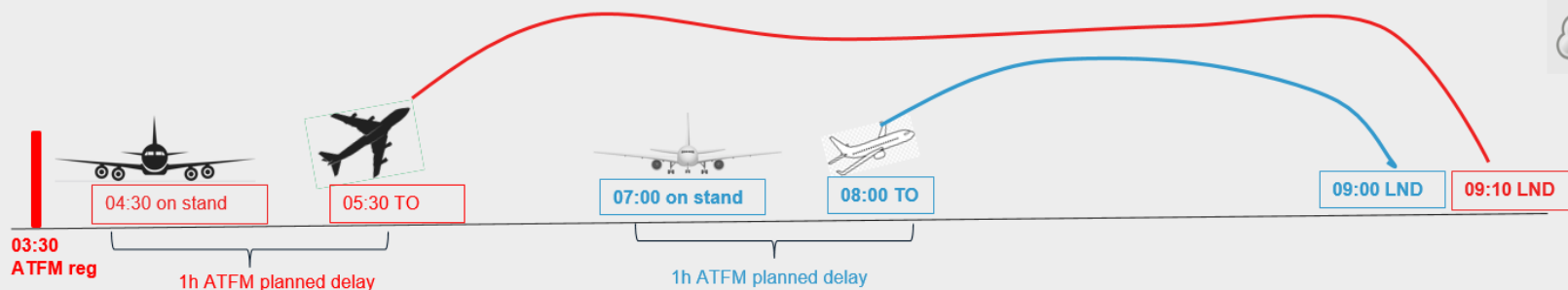




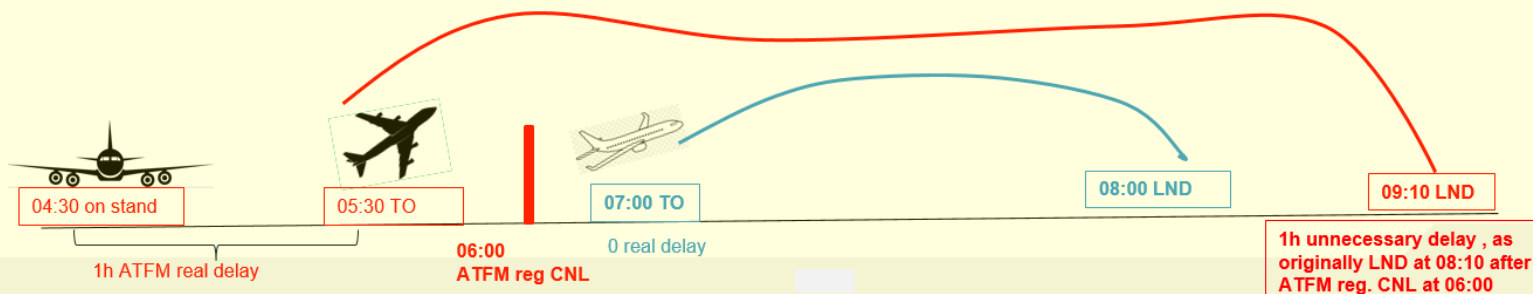
The original plan: what AOs would like to do



@03:30 LowVis and regulation is applied. Plan changes:  $CTOT = EOB T + 1h$  for both flights



@06:00 Wx improves and the regulation is cancelled. What happens in reality:



## Implementation status and next steps

- Collaborative effort between the NM / NMOC, NM/Airports and ANSP/FMPs stakeholder. Well supported by the airlines community.
- In 2022/2023 there are 7 airport locations from 6 ANSPs/FMPs that joined the procedure for short WX with exempted [EM] flows:
  - EBBR (skeyes);
  - EDDF (DFS Langen);
  - LSGG and LSZH (Skyguide);
  - ENGM (Oslo FMP, Avinor);
  - LEPA (Enaire, LECP FMP);
  - EHAM (LVNL).
- Next steps: inclusion of the [EM] flow procedure for short WX to the ATFCM OPS Manual. IN with new applicants published on NOP (instead of issuing.
- Aircraft operators to encourage ANSPs to apply the procedure. Requests to [shortwx@eurocontrol.int](mailto:shortwx@eurocontrol.int)

## Participants

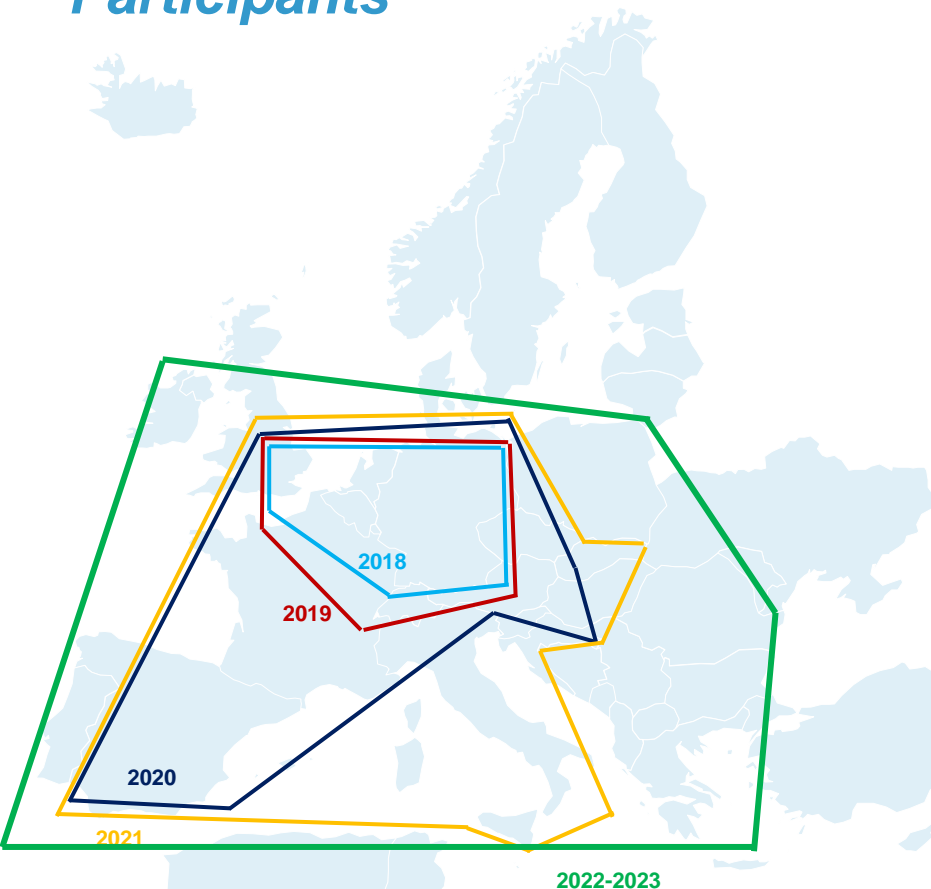
**2023**

- Albcontrol
- ANS CR
- Austrocontrol
- Bhansa
- BULATSA
- CroControl
- DFS
- DSNA
- ENAIRE
- ENAV
- HungaroControl
- IAA
- LPS SR
- LVNL
- M-NAV
- MUAC
- NATS
- NAV Portugal
- PANSa
- ROMATSA
- Skyguide
- Slovenia Control
- Smatsa

Meteorological service coordination led by  
**EUMETNET**

Aircraft Operators – **KLM, easyJet, Air France  
and Lufthansa**

Airports – **London Heathrow, Barcelona,  
Zurich, Amsterdam Schiphol**





## Cross Border Convection Forecast View

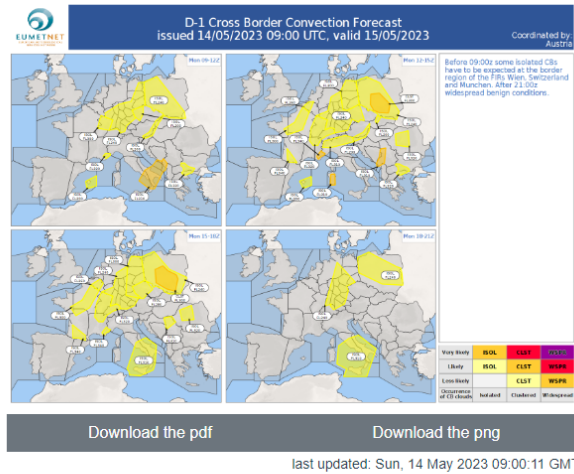
Validity date:



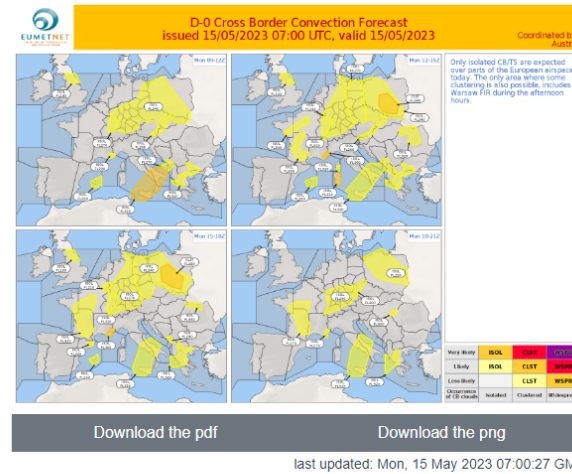
Monday, May 15, 2023



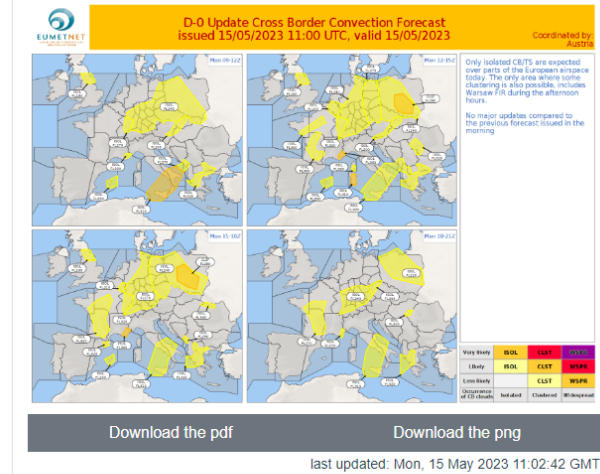
D1



D0



D0U

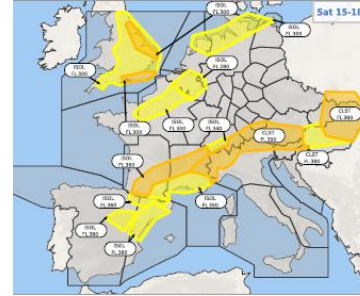
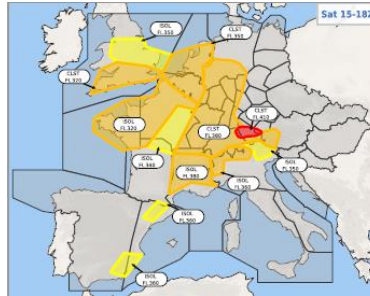


The Cross Border Convection Forecast is provided by the participating meteorological services



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[Data Protection Information](#)
[Accessibility](#)

## Triggers for Collaboration

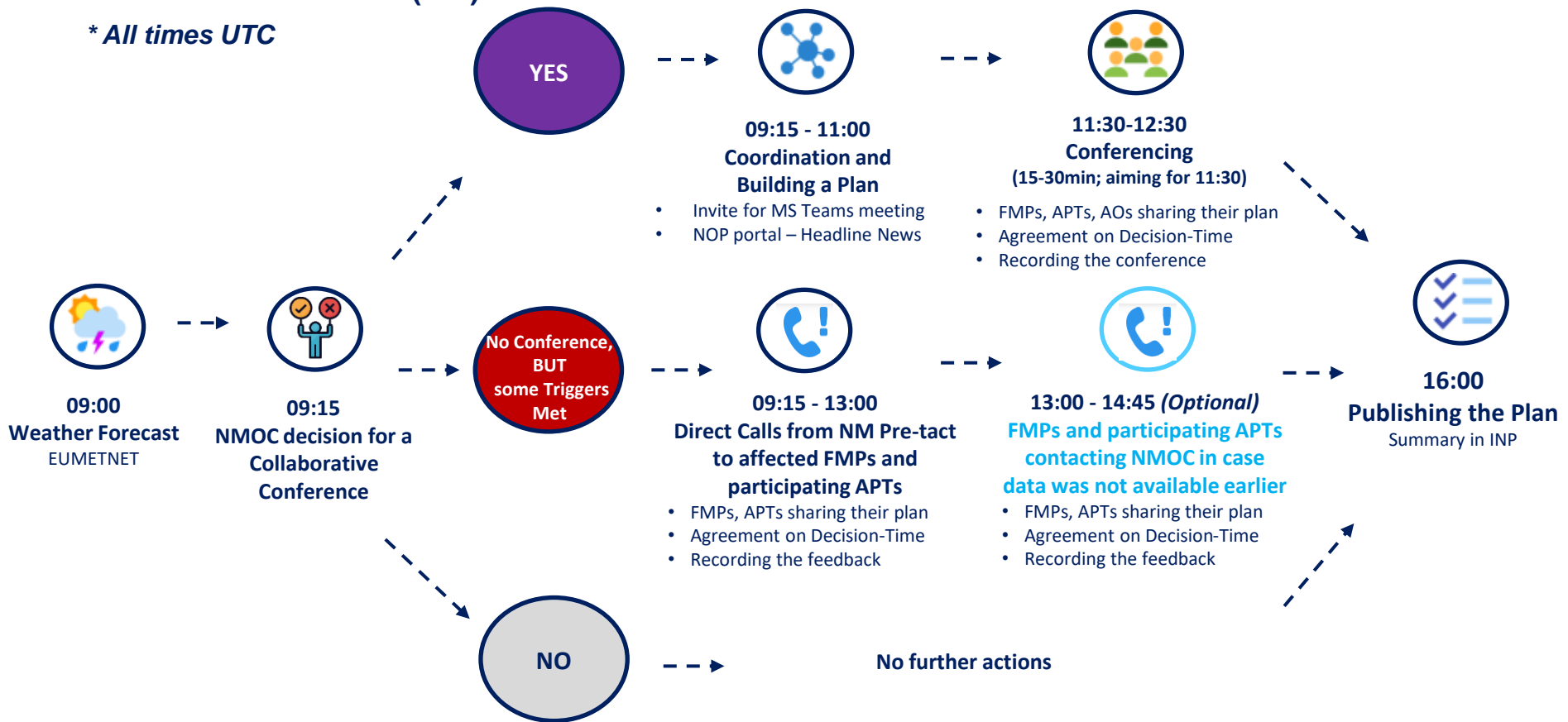


- Traffic levels – above 20,000
- Day of the week – higher likelihood Friday – Monday
- Special events – e.g. Industrial action
- Colour based
  - **Red** and **purple** – a conference normally should be called
  - **Wide orange** covering central Europe / traffic flow axis → either individual calls to FMPs or a conference
  - Other → individual calls if required

# Summer 2023

## Timeline – Pre-tactical (D-1)

\* All times UTC



# Summer 2023

## Timeline – Tactical (D-0)



**07:00**  
**Weather Forecast**  
**Update**  
EUMETNET



**WIP**  
**Live Weather**  
**Observation**  
EUMETNET



### Follow Up Calls

- Update on information provided at D-1
- Differences from local forecast
- Need for a weather regulations



**Relevant Tactical Information**  
→ NOP portal Headline News



***Calls through the day based on the situation***

***\* All times UTC***



## Summer 2023



Start – **1<sup>st</sup> May** (Mon)

End – **16<sup>th</sup> Oct** (Mon)



***MET Forecaster  
in the NMOC***



***“Live” Feedback***  
*NMOC Weather Dashboard*



## NETWORK CROSS-BORDER WEATHER DASHBOARD 2023

- ☐ Select all  
☐ Yesterday  
☒ Today  
☐ Tomorrow

### D-1 CONFERENCE

- ☒ Select all  
☐ No D-1 conference

### FMP/APT

Search

- ☒ Select all  
☐ (Blank)

FMP									
Covered day	FMP	Agreed D-0 Time	D-1 Conf.	Staffing Levels	Exp. Cap. reduction vs standard	Exp. and max. no. sectors	Affected sectors	Rerouting options	Note
Wednesday, May 03, 2023			No D-1 conference						

AIRPORT								
Covered day	APT	Agreed D-0 Time	D-1 Conf.	Capacity reductions	Diversion Capability	Other Constraints	Work in progress	Note
▼								

## *Beyond Summer 2023*

