



Ministerie van Infrastructuur  
en Waterstaat



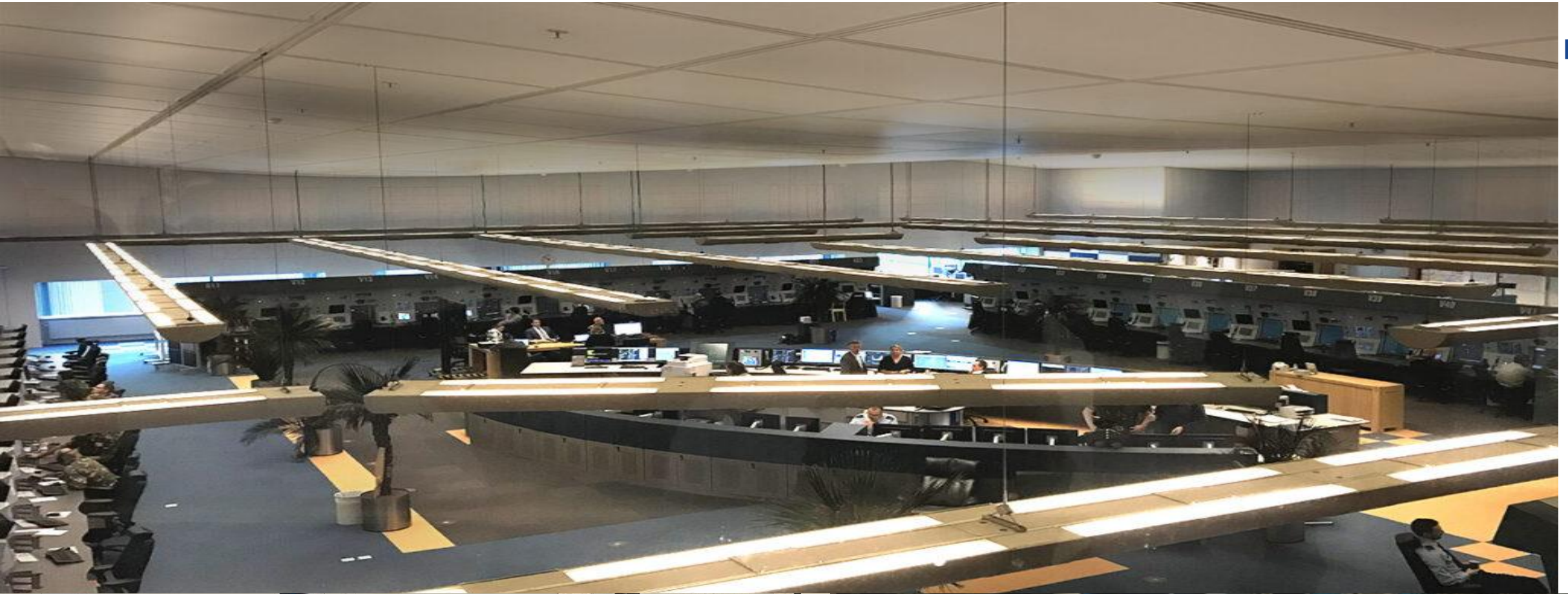
# WELKOM

GA Season Opener 2026

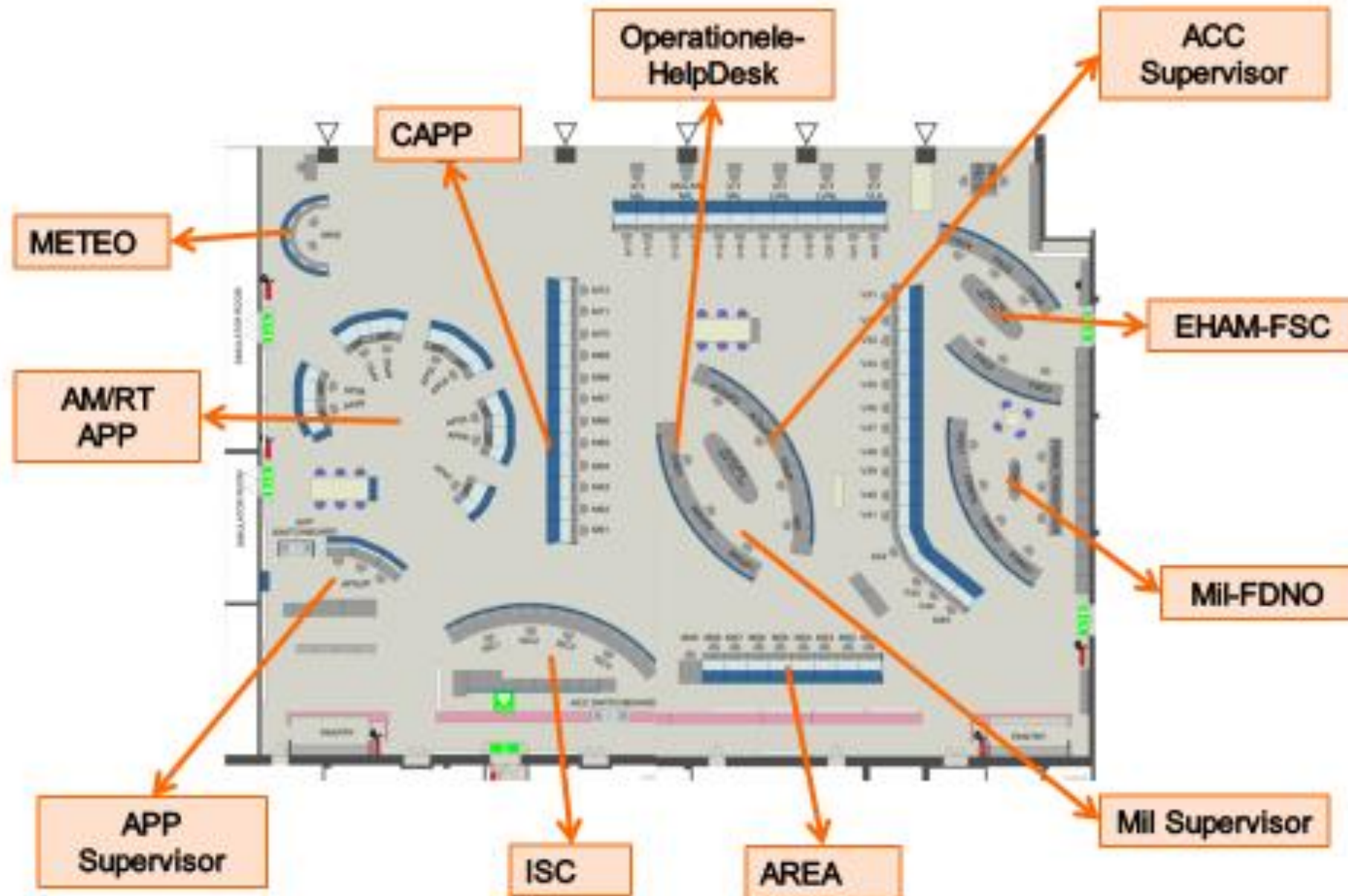
- Communicatie in de GA



- **Communicatie in de GA**
- **Basics**
  - Readback
  - Roger of Copied
  - Wilco
  - Say again
- RT van A naar B



# Layout OPSROOM



# Team opbouw

- **FIC/FMP is separate afdeling binnen ACC**  
30 FIC / FMP controllers  
2 werkposities, able to split sectors in peak times
- G airspace IFR en VFR
- **Dutchmil geen separate afdeling.**  
Rooster wordt gevuld door controllers, assistenten  
soms gecombineerd met DM LOWER
- 1 werkpositie
- G&E airspace VFR



FREQUENCIES

SCD info	COP info W	COP info E	RRR control (RR)
134.775	134.030	134.000	124.075
121.325			RRR control (PR)
			124.8
height	ARRL info		LAW info W (YPR)
125.275	119.175 / 259.475		128.525
LOR control			DMEL LOW 1
135.425			128.355
LOR info W			DMEL LOW 2
125.475			125.930
LOR info E			DMEL info
124.6			132.350
	RRR control		
	128.805		
	RRR info		
	126.9		

ARRL info  
119.175 / 259.475  
128.500 / 369.625  
124.3

EHKD	ARR	124.230	EBOS	APP	120.605
	TWR	120.130			
EHAM	APP 1	121.205	EHTX		119.305
	APP 2	119.055	EHHO		123.410
	TWR 1	119.230	EHV		131.030
	TWR 2	118.105	EHSE		120.655
	TWR W	118.280	EHWO		120.430
EHLE	ARR	134.530	EHMZ		119.255
	TWR	135.180			
EHRO	APP	radar closed - TWR		118.205	
	TWR	118.205			

ACTUALS 0500

OBS TIME 190555 RWY 03

WIND 080 02/03

VIS 5000 M

WX BR

CLD NO CLOUDS DETECTED

TEMP 4

DP 3

QNH 1027

SUPPL

COLOR WHT

TREND TEMPO 4000 BR MIFG

ARRIVAL ACTIVITIES

EHR4/A  
EHR4BCDF  
EHR8/A  
  
EHR49  
EHD41ABC  
EHD42  
EHD69/A  
MIL w/EHD

NSCAW ATIS BY FIC

SUB PLS

CAS 1  
CAS 2  
CAS w/TMA

RR

RHOON

CL UTRECHT  
CL BRABANT

CL ZEELAND

ACC INFO

MIL INFO

FIS BRE LANGEN ACC CENTR FIS  
ROTOR  
EHLE RWY 05



# Amsterdam/ DM Info

## Traffic

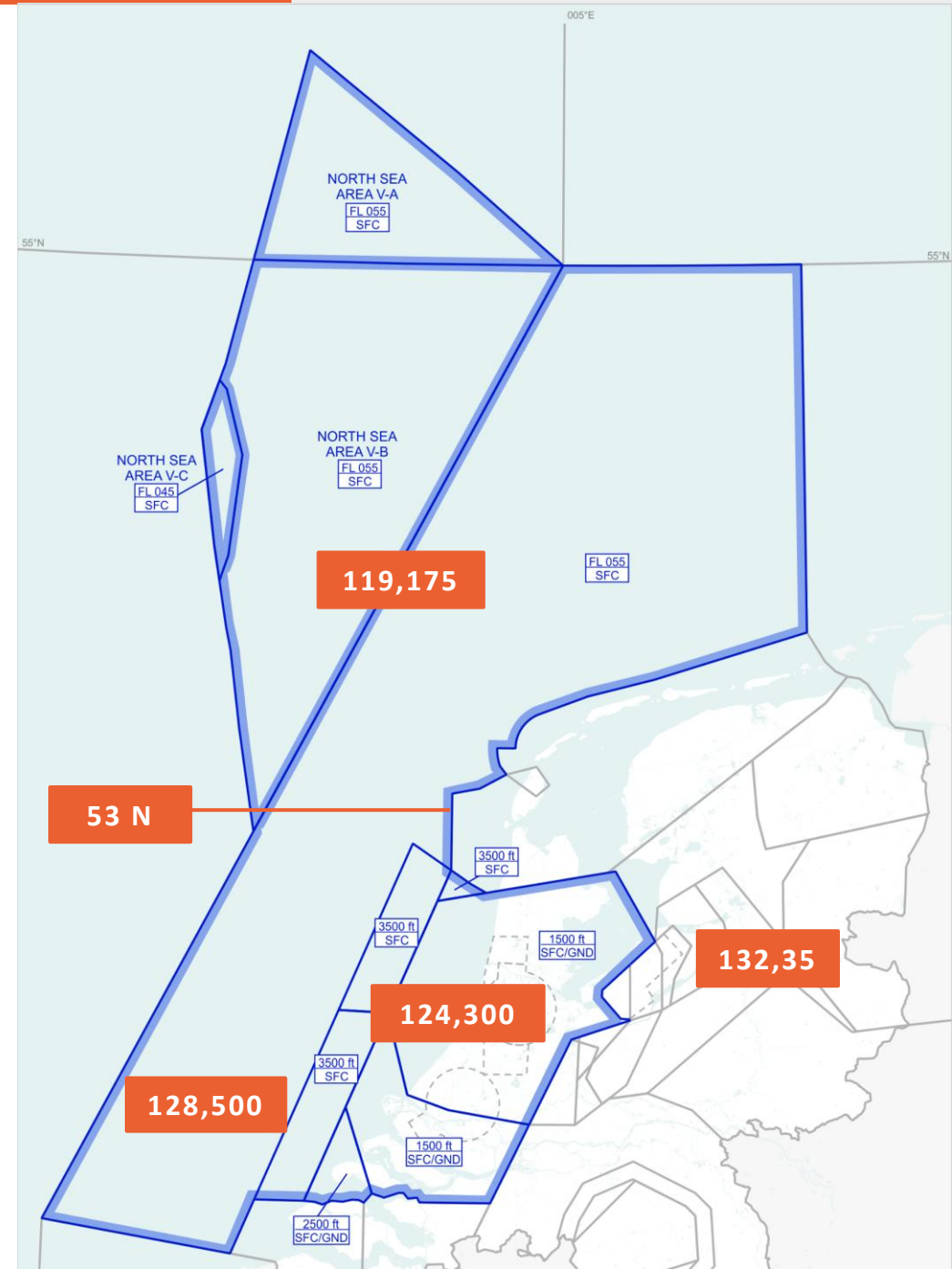
- Off shore
- GA
- Military

## Service

- Flight Information Service
- Alerting service

## Frequencies

- Land: 124,300 MHz
- Sea: 128,500 MHz (zuid 53°N)  
119,175 MHz (noord 53°N)
- 132,35MHz





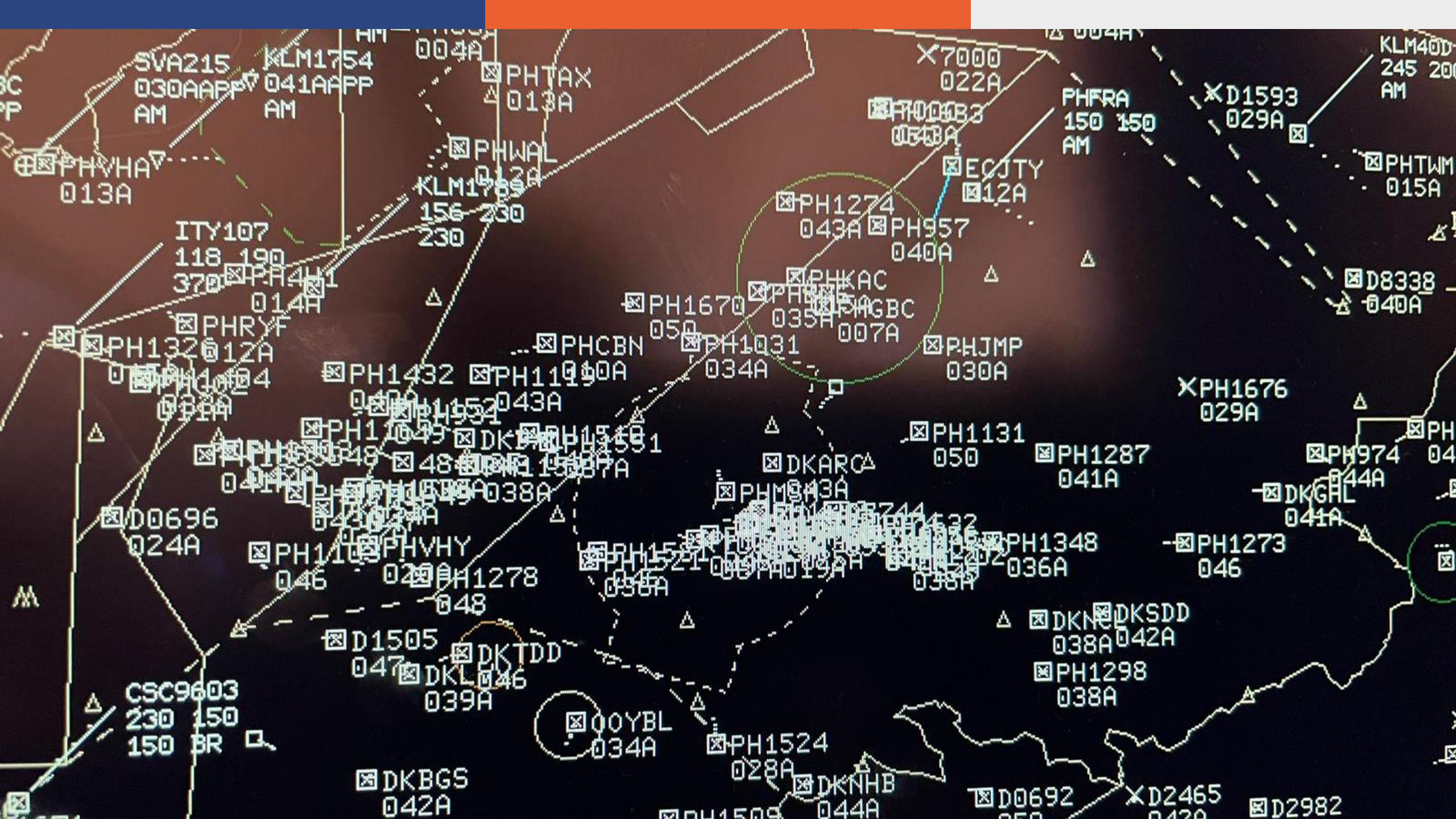












SVA215  
030AAPP  
AM

KLM1754  
041AAPP  
AM

PH TAX  
013A

X7000  
022A

PH FRA  
150 150  
AM

XD1593  
029A

KLM400  
245 200  
AM

PH VHA  
013A

PH WAL  
013A

KLM1785  
156 230

PH DGB  
054A

ECJTY  
012A

PH TWI  
015A

ITY107  
118 190  
370

PH 411  
014A

PH1274  
043A

PH957  
040A

D8338  
040A

PH RYF  
012A

PH1670  
050A

PH KAC  
035A

PH GBC  
007A

PH JMP  
030A

PH1320  
012A

PH CBN  
050A

PH1031  
034A

XPH1676  
029A

PH1432  
043A

PH1110  
040A

PH1131  
050

PH1287  
041A

PH 04

PH1049  
041A

DK 48  
041A

PH1551  
038A

DK ARC  
043A

DK GHL  
041A

D0696  
024A

PH1103  
046

PH VHY  
020

PH1278  
048

PH1521  
038A

PH1521  
038A

PH1521  
038A

PH1348  
036A

PH1273  
046

D1505  
047

DK TDD  
046

DK L  
039A

00 YBL  
034A

PH1524  
028A

DK NHB  
044A

DK N  
038A

DK SDD  
042A

PH1298  
038A

CSC9603  
230 150  
150 BR

DK BGS  
042A

PH1509

D0692  
050

XD2465  
043A

D2982



# Working position







# Airspace Infringements

## Hotspots in LVNL airspace

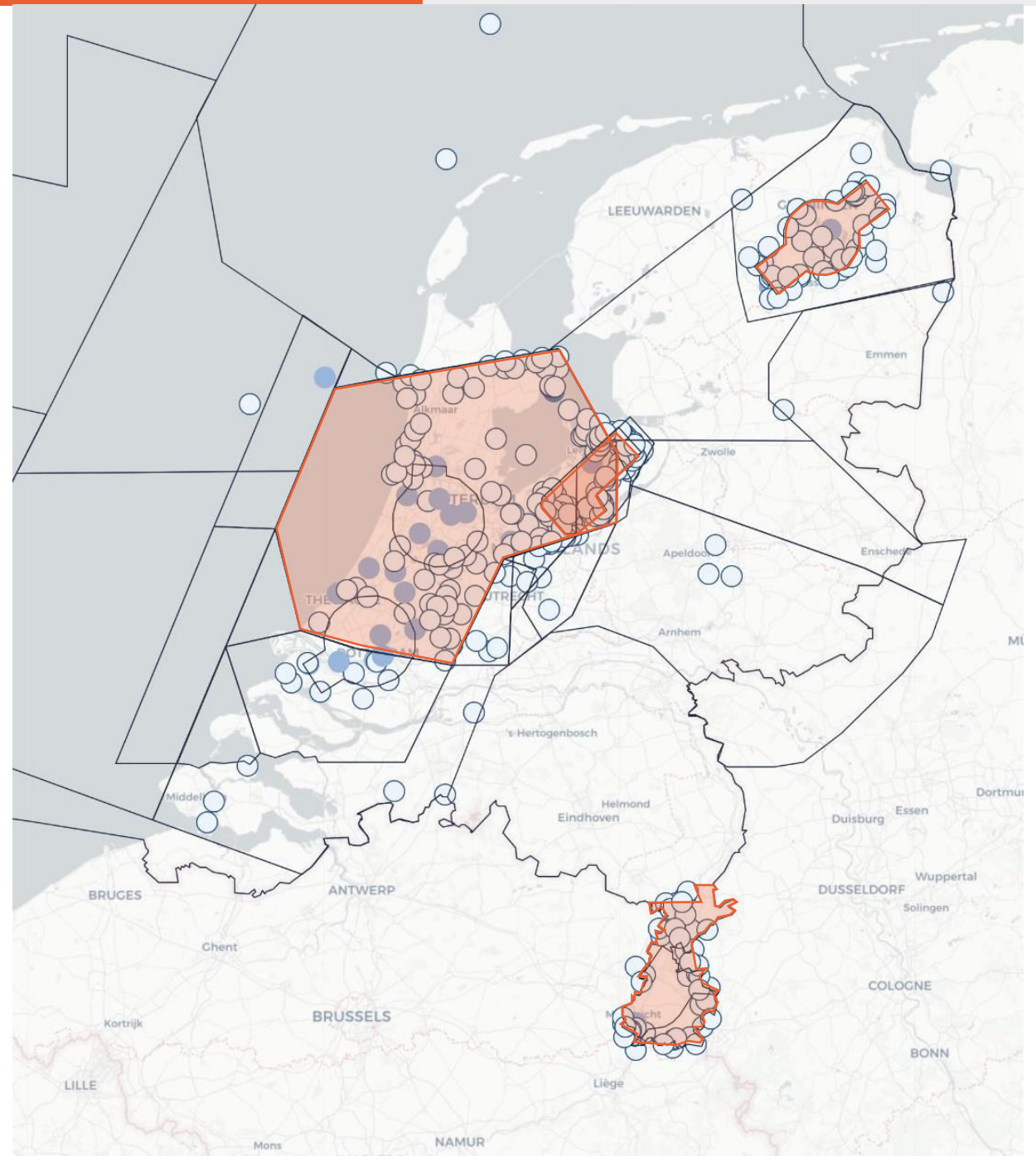
- Schiphol TMA 1: small margins, busy area
  - VFR traffic up to 1500ft
  - IFR inbound airliners at 2000ft

### 7.3.2 Risk of AIRPROX

The Schiphol TMAs, in which intensive airline traffic is operating, cover a large part of the airspace in the centre of the Netherlands. VFR flights are not permitted in the Schiphol TMAs. The airspace below the Schiphol TMAs is class G airspace. The lower limit of the Schiphol TMA 1 is 1500 FT AMSL. The minimum altitude of IFR flights in the Schiphol TMA 1 is 2000 FT AMSL.

**Note:** according to the airspace classifications system, the horizontal boundary between the two airspace classes belongs to the least restrictive class i.e. class G. So VFR flights are permitted up to an altitude of exactly 1500 FT AMSL.

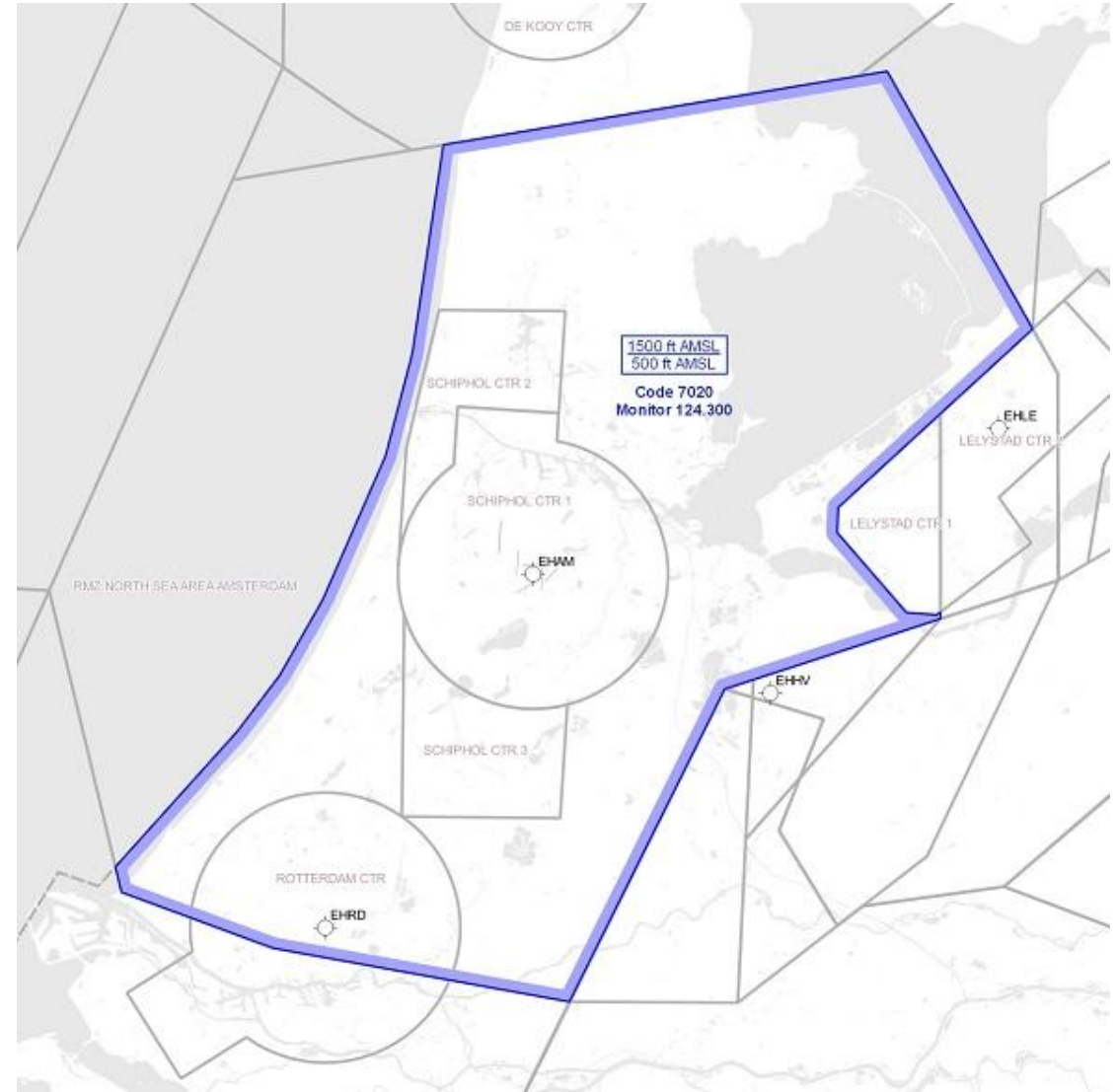
In the Schiphol TMA 1, AIRPROX occur regularly between IFR flights and VFR flights. It appears that pilots of VFR flights flying at 1500 FT AMSL unintentionally climb into the Schiphol TMA 1 due to turbulence or possible tolerance of the altimeter. **Furthermore, the risk of wake turbulence and ACAS warnings exists in relation to airline traffic at 2000 FT AMSL.** Therefore, pilots executing a VFR flight below the Schiphol TMA 1 are urgently requested not to operate at, or just below, an altitude of 1500 FT AMSL. Furthermore, it is highly recommended to gather up-to-date information regarding the runways in use at AMSTERDAM/Schiphol Airport, to stay clear of the IFR traffic on intermediate and final approach.



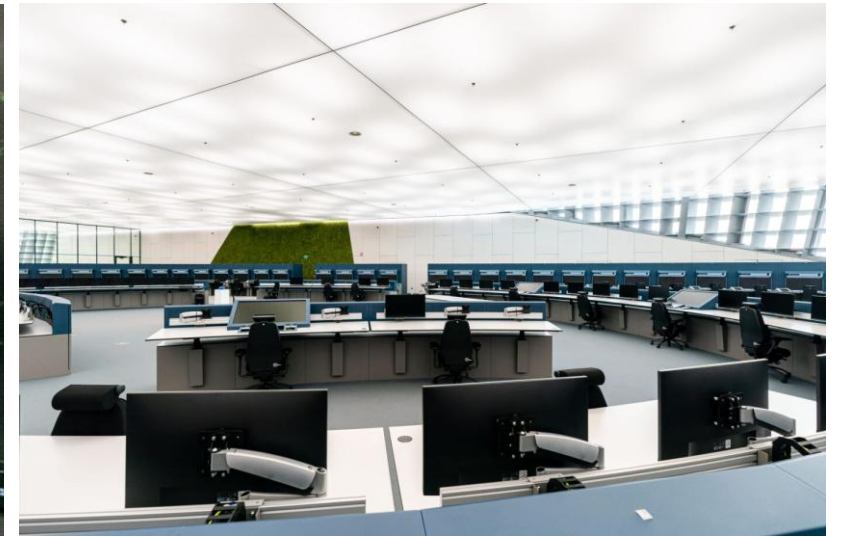
# Listening watch obligation - FMC

In this TMZ pilots of aircraft equipped with a transponder are required to:

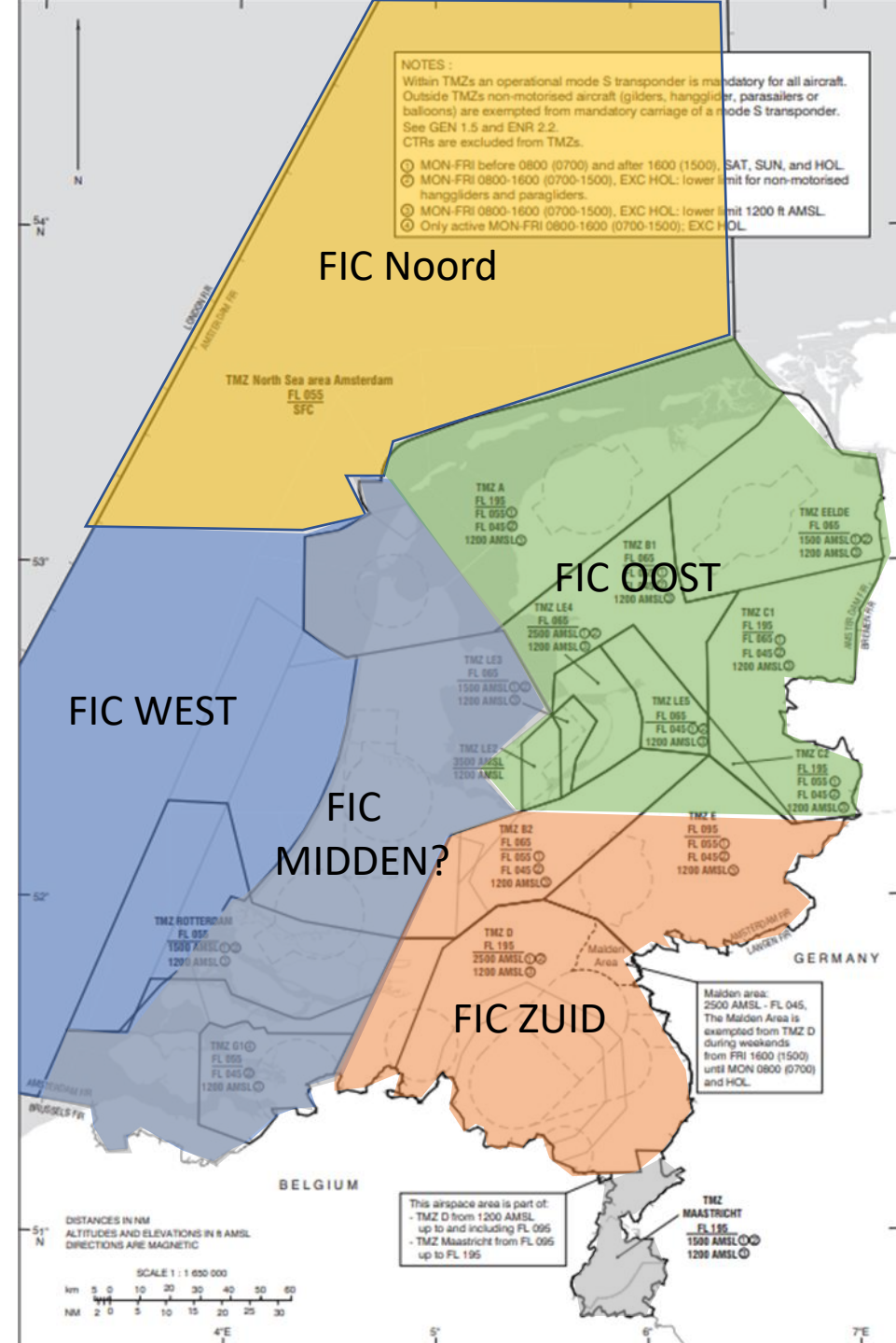
- set the transponder to code 7020, and
- maintain an air-ground voice communication watch on 124.300 (Amsterdam Information).



# Future: iCAS



# Toekomst luchtruim..





Opm vragen

[https://www.instagram.com/reel/DRCxJ\\_sDQKW/?igsh=emY1N21zZzg5aDli](https://www.instagram.com/reel/DRCxJ_sDQKW/?igsh=emY1N21zZzg5aDli)



# GA Flightpath 2030+

Dutch GA Season Opener 2026

21 March

# GA Flightpath 2030+ Mission Statement

*We will enhance the GA safety culture, enable its sustainable growth, and embrace a digital future so that we can maximize the benefits of technology and encourage wider participation and accessibility*



# Project Team



**Alain LEROY**  
Champion



**Vladimir FOLTIN**  
Project Manager



**Raphaëlle BERTHIER**  
Project Assistant



**Gilles Gardiol**  
Project Coordinator

# Main GA Events 2026

- 21 Apr – 1<sup>st</sup> **Combined GA.TeB & GA.CSTG**
- 22-25 Apr - **AERO 2026**
- Oct - **Annual cost-shared flights charter**
- Nov – 2<sup>nd</sup> **Combined GA.TeB & GA.CSTG**
- Jan–Dec – **Other GA Events - Safety Priorities**  
(e.g. *Gordon Bennet Race 2026*)

# AERO 2026 PRIORITIES



## Supporting industry & promoting EASA

Through appropriate staffing of the EASA stand, organisation of EASA events and participation in EASA priority industry events.



## Promoting *i*Conspicuity & ADS-L

Preventing mid-air collisions through *i*Conspicuity remains a priority for EASA. ADS-L technology is key to achieving this, as it provides an affordable way for everyone to 'be seen and be aware' anywhere.



## Exploring simpler rules for safer GA

Simpler, clearer rules reduce possibility for error. Promoting EASA's Rule Simplification Programme and engaging directly with regulators and the GA industry will help to shape the development of the Declared by Default policy.

# AERO 2026 - Key Events

Reflecting EASA Priorities

SAFE



Maintain a safe, resilient aviation ecosystem

RESILIENT



Equip EASA for the next decade



## *EASA Conference - 23 April*

A dedicated event to promote the **EASA Rule Simplification Programme** and to discuss existing experiences with the use of declarations in GA

## *AERO Career Days – 24-25 April*

Promoting work in the Agency and aviation in general by participating in the event

## *21 April - GA.TeB & GA.CSTG*

Organisation of a **joint meeting** between EASA, NAAs, industry and associations to **discuss about simpler and more proportionate GA regulatory landscape**

## *24 April – iConspicuity Focus Day*

Dedicated sessions organized jointly with the industry focused on the **prevention of mid-air collisions** and the **promotion of iConspicuity through ADS-L compatible technology**

INNOVATIVE



Integrate innovative technologies

SAFE



Maintain a safe, resilient aviation ecosystem

# AERO 2026 - EASA Conference outline

## *Exploring simpler rules for safer GA*

**Objective:** Communicate about relevant initiatives, their objectives, methods and timelines

**Presentation:** EASA Rule Simplification Programme (RSP)

Presentation of the programme update by the RSP manager

**Panel:** Use of declarations in aviation

Discussion about current experiences (pros and cons) with existing declaratory systems in aviation with a particular focus on GA

*Expected Participants: EASA, NAAs, FAA, GA industry*



*Collaboration*



# 2026 Top Priorities



# Declared by Default

EASA Policy 2026



Develop a policy for using a declarative system in GA instead of requiring prior authorisation or approval, and include the proposal for medical self-declaration in the rule simplification project



**INNOVATIVE** **SAFE**

Integrate innovative technologies

Maintain a safe, resilient aviation ecosystem



# iConspicuity a Reality

Joint Roadmap with EUROCONTROL

- Adapt regulatory framework to enable ADS-L implementation
- Finalise research on use of e-conspicuity in ATM



**SAFE** **INNOVATIVE**

Maintain a safe, resilient aviation ecosystem

Integrate innovative technologies

# Greener Faster

EASA Policy 2027+

- Stimulate availability of:
- Fast-charging infrastructure
  - Sustainable / Synthetic Fuels

**INNOVATIVE** **GREEN**

Integrate innovative technologies

Achieve net zero emissions in aviation by 2050

# Fly Direct

EASA Guidelines 2027+

- Implementation of Aeroplane PinS (proceed VFR)
- Harmonizing measures for protecting species and habitats from aviation activities).

**GREEN**

Achieve net zero emissions in aviation by 2050

## Safety Risk Management



Develop min of 5 Top Safety Topics dashboards per ESC (EASA Safety Committee) approval; Consolidate 3 Safety Performance Indicators related to Top Safety Topics approved by ESC; Develop 2 Data4Safety (D4S) Use Cases in line with EASA SRM (Safety Risk Mgmt.) needs; Review D4S Governance; New D4S Provider for the OPS phase selected.

## Implement SMS & ISMS across Industry



SMS (Safety Mgmt. System) oversight in new domains; Oversight of ISMS (Information Security Mgmt. System) development phase in all OA applicable domains; Introduce gradual approach for ISMS Standardisation with 1 ECMA (Enhanced Continuous Monitoring Approach) in 2026 and inspections starting in 2028.

## ATM Equipment Certification & DPOs



Establish internal team and outsourcing (NCAs and QEs) to effectively start performing DPO (Design and Production Organisations) initial investigations and issuance of the first ATM (Air Traffic Mgmt.) equipment certificates.

## Risk Based Approach



Align RBO implementation principles among all OA domains; Calibrate the new Standardisation (STD) maturity model in 2026 and conduct at least 1 SMP (Standardisation Monitoring Programme) to mature countries.

## Flightpath 2030+



Finalise research's conclusions and recommendations of ADS-L (Automatic Dependent Surveillance – Light) for ATM and prepare the initial regulatory framework that will enable its implementation.



## Maintain a safe, resilient aviation ecosystem

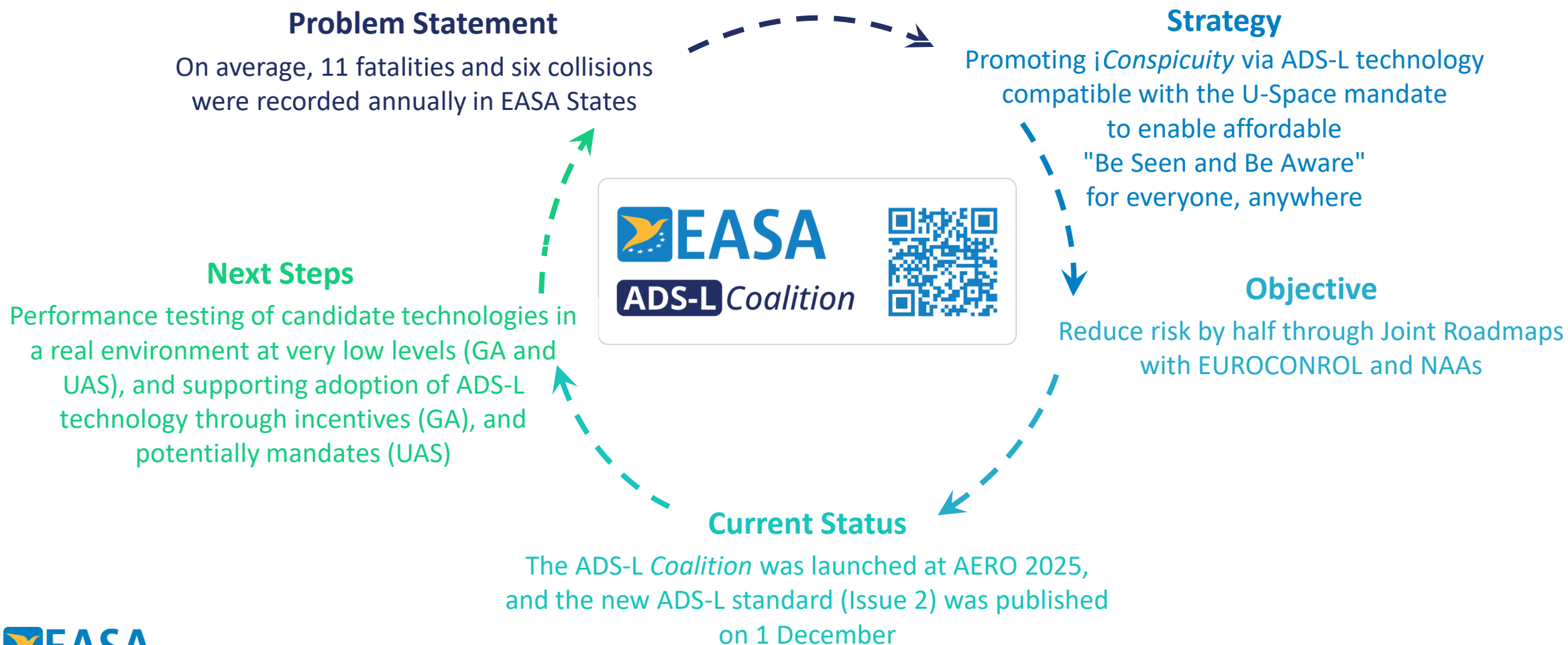
Ensure that European safety and oversight standards effectively mitigate all risks affecting safety.

Approve safe products that perform as expected in the system as part of a competitive industry.

Promote a human-centered approach to maintaining safety.

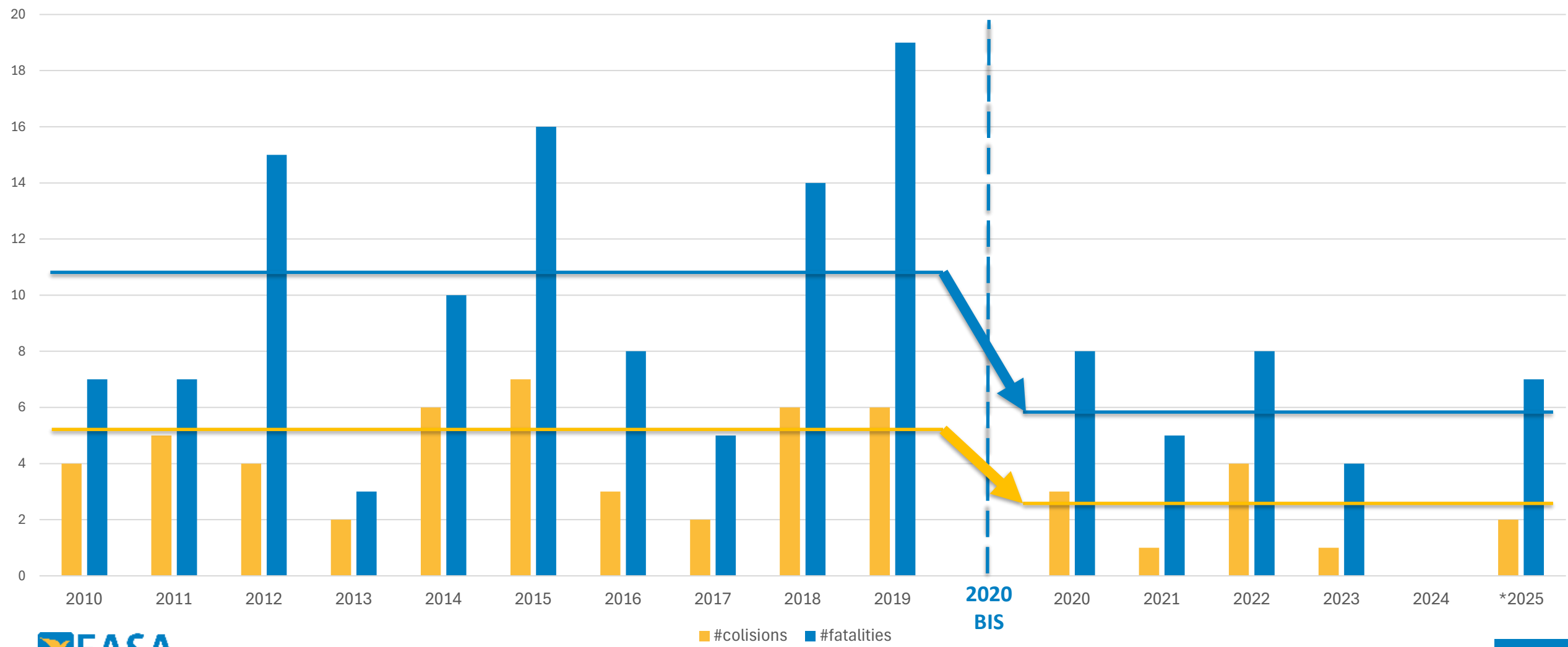
# iConspicuity

Preventing mid-air collisions through a systemic approach



# Safety 2010 - 2025

Fatal airborne collisions / fatalities in EASA States



# Technology

## Interoperability

- New [ADS-L](#) standard (*1 Dec 2025*)
- Research into ATM use cases

## Performance

Testing of candidate technologies in a real-life environment at very low flight levels (GA and UAS)



**ADS-L** Coalition



## Affordability

Utilizing unlicensed frequency bands and uncertified devices

# Safety Culture

## **iConspicuity Declaration**

Authorities' public commitment to advance [iConspicuity](#) and data use to improve aviation safety and operational efficiency through collaborative analysis



## **Key Principles**

- Voluntary nature
- System-wide insights
- 360-Degree Collaboration
- Transparent Monitoring
- Data protection



## FIS enhancement

Improve the quality and safety of existing FIS by providing enhanced situational awareness for the FIS Officers or ATCOs (to similar level of information as is available to pilots) without the need to change existing rules, procedures or operational practices.

A few ANSPs are already engaged in this topic.

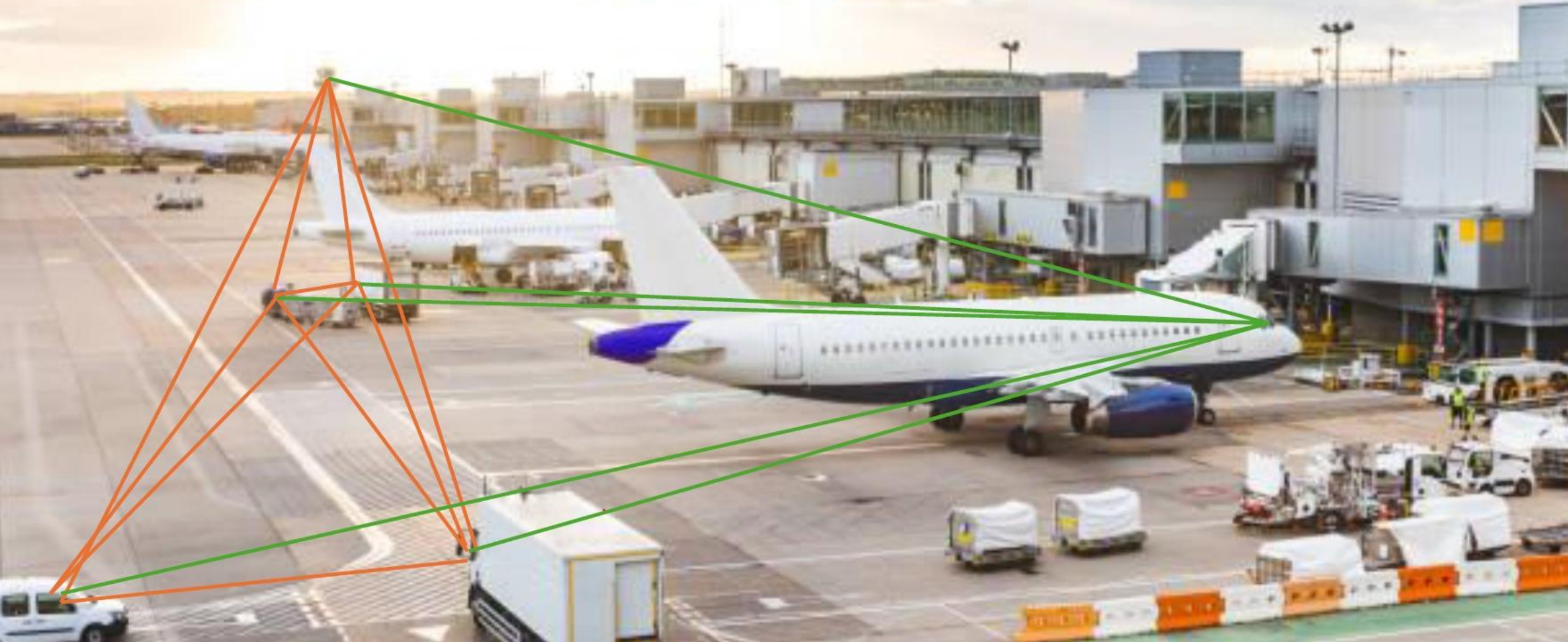


## SAR enhancement

To help SAR teams distinguish between real and false alarms and minimize search times, e.g. through a single web portal that provides real-time and historical positions of aircraft and other aircraft such as gliders, paragliders and hang-gliders.



Pilot project in preparation (led by FOCA).

# And what about Digital Towers or Airside / Runway Safety?



# Next Steps

## Current Mandates

- GA aircraft to be conspicuous in U space via ADS-L or ADS-B
- Drone remote identification via  

## For EASA

- Consolidate technology performance and publish the research's recommendations on use of *iConspicuity* in ATM
- Increase safety and reduce the costs of ADS-L technology through incentives (GA), and potentially mandates (UAS)

## For Member States

- Join *iConspicuity* Declaration
- Consider developing national implementation roadmap



< Press corner

Available languages: English

PRESS RELEASE | Feb 11, 2026 | Strasbourg | 5 min read

# Commission presents action plan to counter drone threats

The European Commission today presented its **Action Plan to counter the increasing threats posed by drones to EU security**. In recent years, the EU has faced growing and multi-faceted challenges relating to drones and meteorological balloons, including hostile overflights, airspace violations, disruptions to airports, as well as risks to our critical infrastructure, external borders and public spaces.

The Action Plan represents an ambitious blueprint for stronger EU cooperation and solidarity, responding to the calls from EU Member States and the European Parliament for a united EU **approach against threats posed by malicious drones**. It focuses on the **civilian internal security dimension**, while complementing and supporting the work carried out in the **defence domain** by the Commission, and reinforcing civil-military synergies. In addition, the Action Plan contributes to the development of a **competitive European drone market**, unlocking the potential for innovation, growth and job creation across this important sector.

The Action Plan is designed to support Member States through coordinated actions, complementing national measures and focused on key priorities: **enhancing preparedness**, boosting **detection capacities**, **coordinating responses** and **strengthening the EU's defence readiness**.

## Key actions on preparedness:

- As a matter of priority, the Commission, together with Member States, where appropriate, will:
  - **Propose a Drone Security Package** by Q3 2026 to rapidly adapt the regulatory framework to new security threats:
    - **Ensure mandatory registration** for all drone operators of smaller drones (above 100g).
    - **Extend drone direct remote identification** obligation to smaller drones (above 100g).
    - **Avoid take-off of drones** unless an operator identification number has been entered.
    - **Introduce regulatory simplification and flexibility** for certain operations.
  - **Work with willing Member States on a voluntary plan to stress test** the resilience of critical infrastructures against drone intrusion.
  - Adopt non-binding **CER guidelines** on resilience enhancing measures for critical entities with targeted evidence on countering threats posed by drones (Q3 2026).

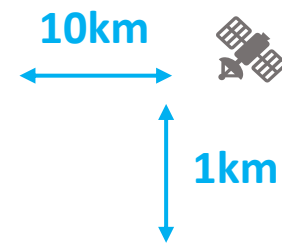
- The Commission, will follow up with Member States, in order to:
  - **Develop by Q4 2026 an EU Trusted Drone Label** to enhance trustworthiness of civil drones placed on the market.
  - **Improve by Q4 2026 the availability of UAS geographical zone information, and by 2027 establish the technical requirements for geofencing function.**
  - **Establish by Q1 2027 a EU counter-drone centre of excellence** and launch testing programmes, integrating aviation safety requirements. Support the development of **full standard for a harmonised testing methodology** for countering unmanned aircraft systems.
  - **Launch by 2027 a pilot action to enhance maritime domain awareness** to counter surface and undersea drone threats
  - **Expand in Q1 2026 the composition of the Commission-chaired Counter-drone Expert Group (CUASG)** to include relevant EU Agencies (e.g. Frontex, Europol, EDA, EASA).
  - **Upgrade by Q2 2026 the training cycle for law enforcement operators** to include

# Advice from Sunny Swift

A FRIEND WANTS TO INSTALL SUCH A SYSTEM IN HIS PRIVATE AIRCRAFT. HE'S NOT SURE WHICH SYSTEM TO CHOOSE.

I SUGGEST BUYING AN ADS-L SYSTEM WITH DIRECT RADIO LINE OF SIGHT CAPABILITY, COMPLEMENTED BY MOBILE NETWORK CONNECTIVITY.





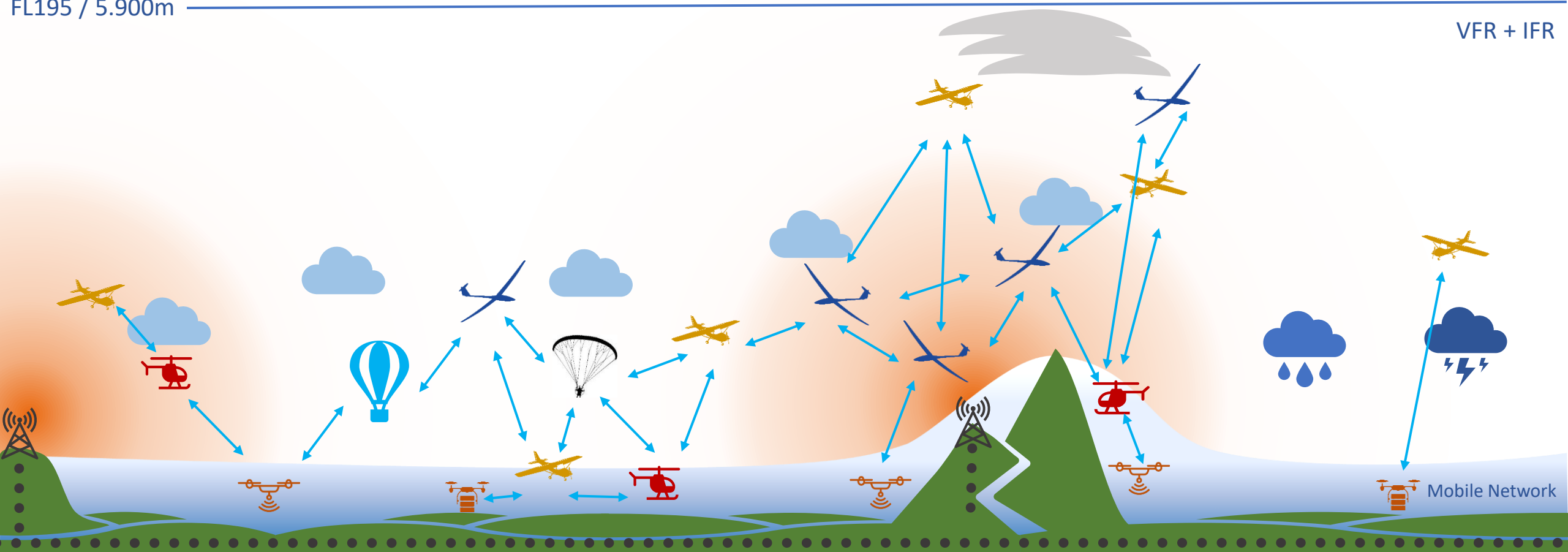
# ADS-L for General Aviation and Drones



IFR

FL195 / 5.900m

VFR + IFR



# GA Flightpath 2030+



## Safety

Enhancing safety culture

## Sustainability

Enabling sustainable growth

## Digitalization

Embracing a digital future to maximize the benefits of technology

## Inclusiveness

Encouraging wider participation and accessibility





Ministerie van Infrastructuur  
en Waterstaat



# LUNCH

Eet smakelijk!



Koninklijk Nederlands  
Meteorologisch Instituut  
*Ministerie van Infrastructuur en Waterstaat*

# Luchtvaartmeteorologie voor General Aviation

Helga van der Vegt - Vuist





# Veiligheidsmeteoroloog

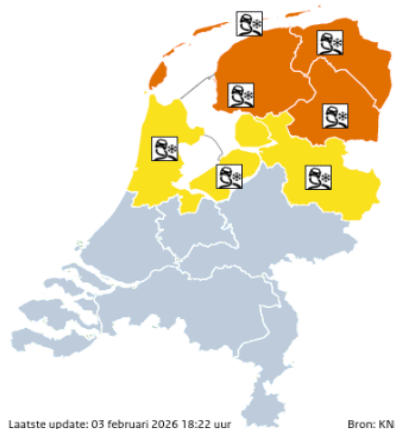


Koninklijk Nederlands  
Meteorologisch Instituut  
Ministerie van Infrastructuur en Waterstaat

## Waarschuwingen

[Bekijk weersverwachting](#) → [Bekijk waarnemingen](#) →

**Code oranje** In de loop van de avond in het noorden op steeds meer plaatsen verraderlijke gladheid



Laatste update: 03 februari 2026 18:22 uur

Bron: KNMI

dinsdag 03 februari 2026



Volg ons liveblog voor de laatste updates

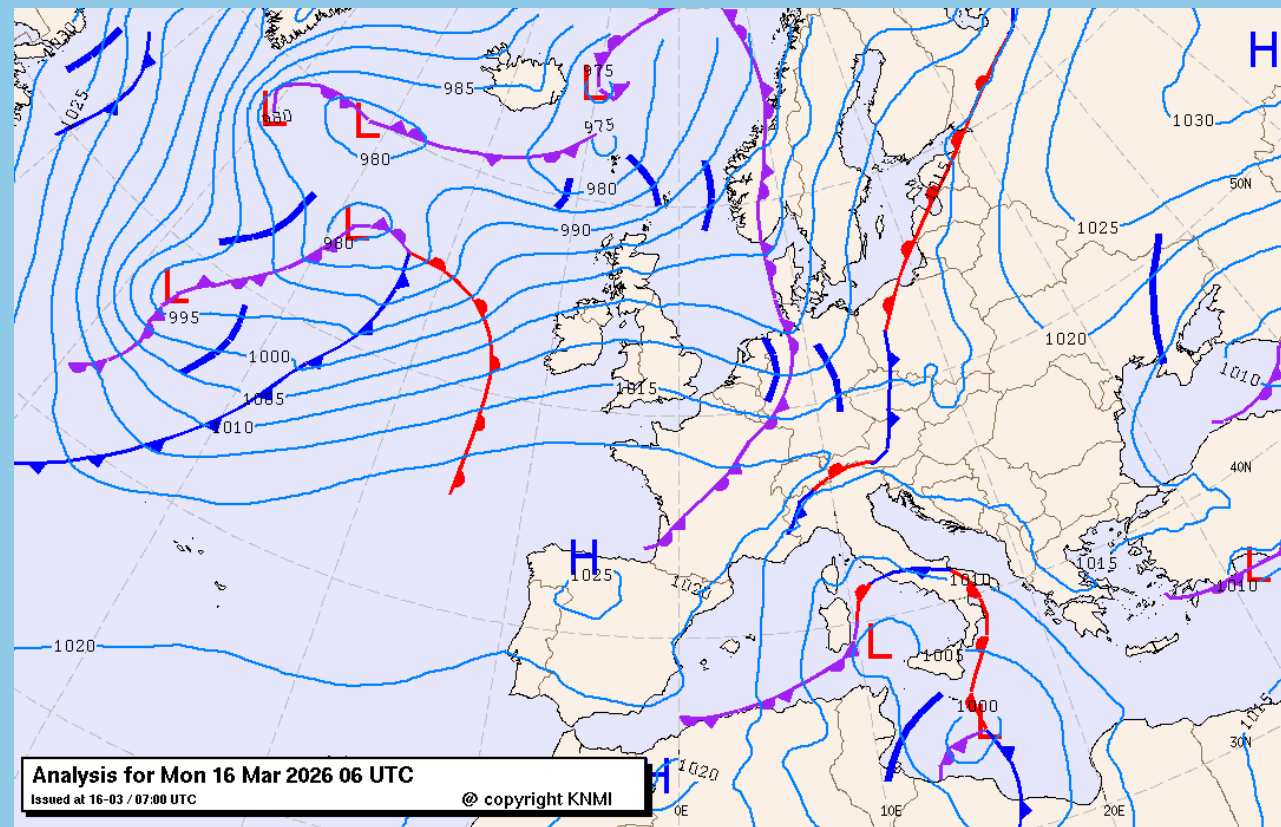
### In de loop van de avond in het noorden op steeds meer plaatsen verraderlijke gladheid

In de loop van de avond, vannacht en woensdagochtend is er in het noorden en noordoosten op veel plaatsen verraderlijke gladheid door ijzel. Hierdoor is er een grote kans op ongelukken door gladde wegen, fietspaden, voetpaden en bruggen. Hiervoor is code oranje van kracht van vanavond 22:00 tot woensdagochtend 10:00 uur.

Ook in de noordelijke delen van de provincies Noord-Holland en Flevoland en ook in Overijssel neemt de kans op plaatselijke gladheid vanavond toe. Hiervoor geldt code geel tot woensdagochtend 06:00 uur.

[Wat kan ik verwachten en wat kan ik doen?](#)

[Toon meer](#) ▾

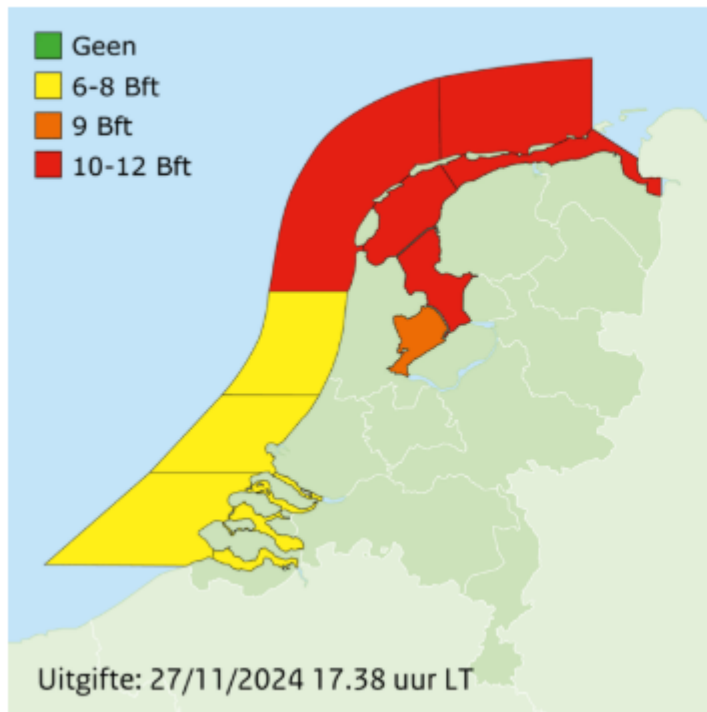


# Noordzeemeteoroloog

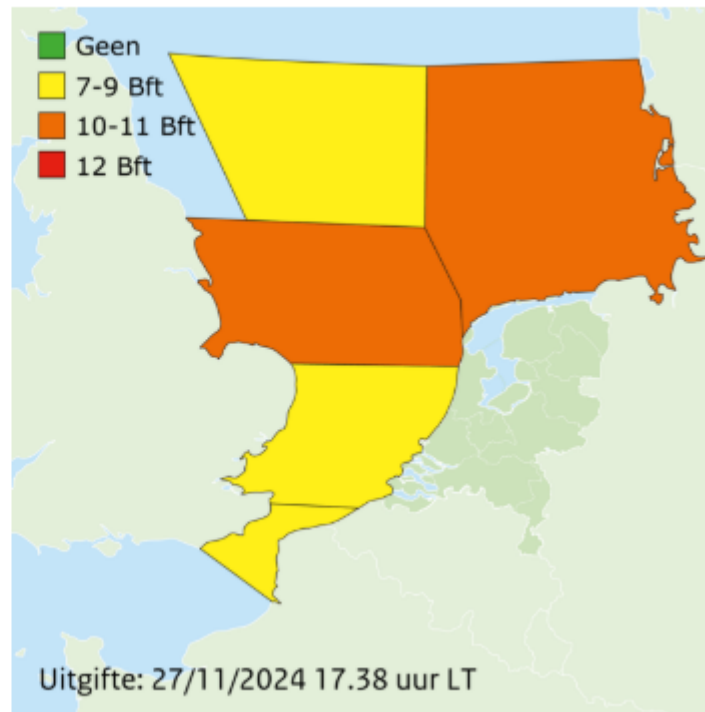


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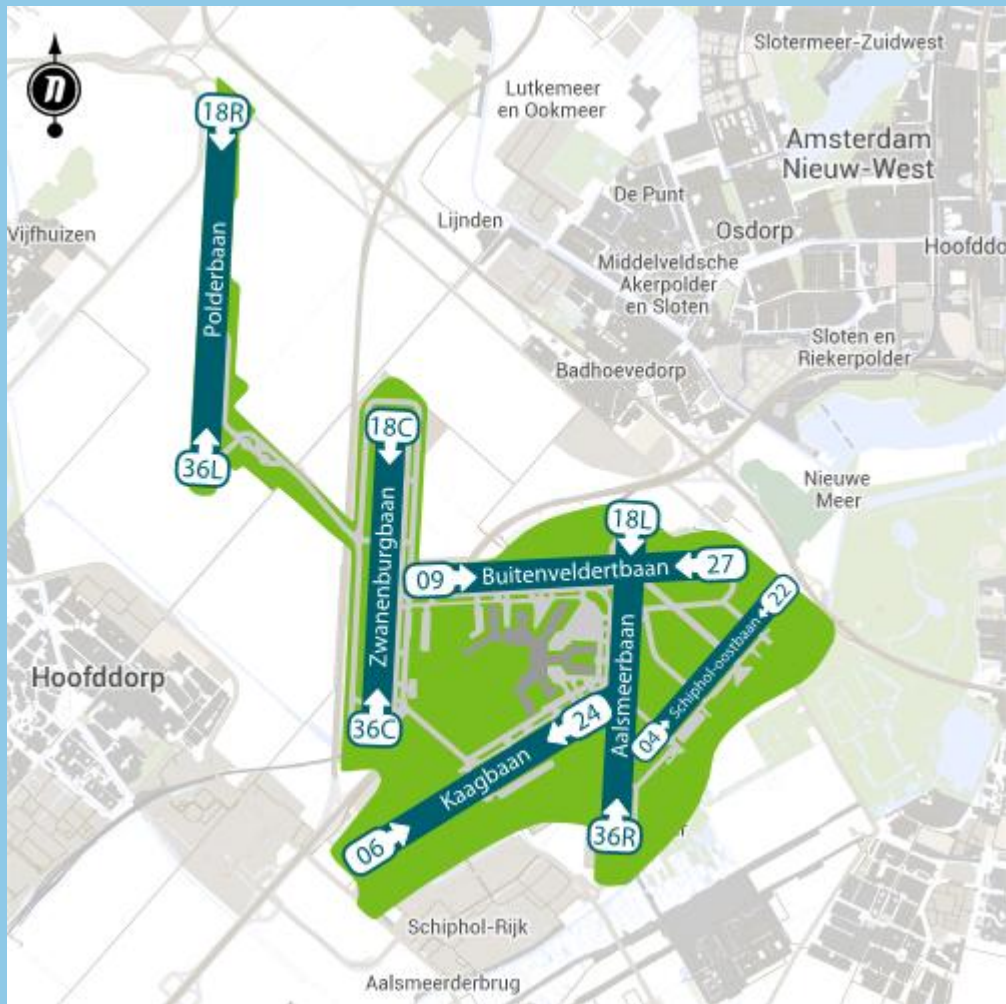
## Kustwateren



## Noordzee



# Mainportmeteoroloog



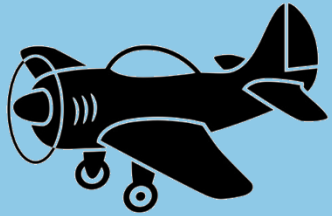
# Waarnemer Schiphol



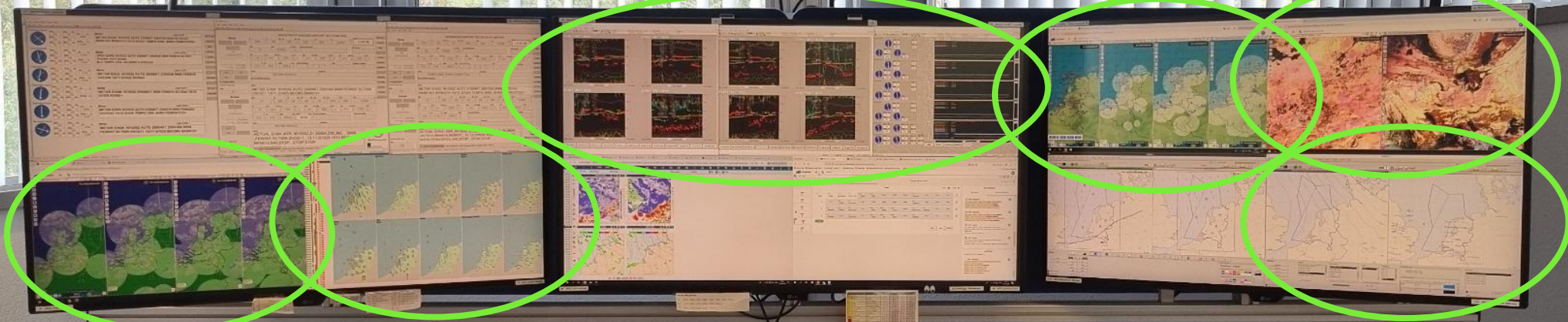
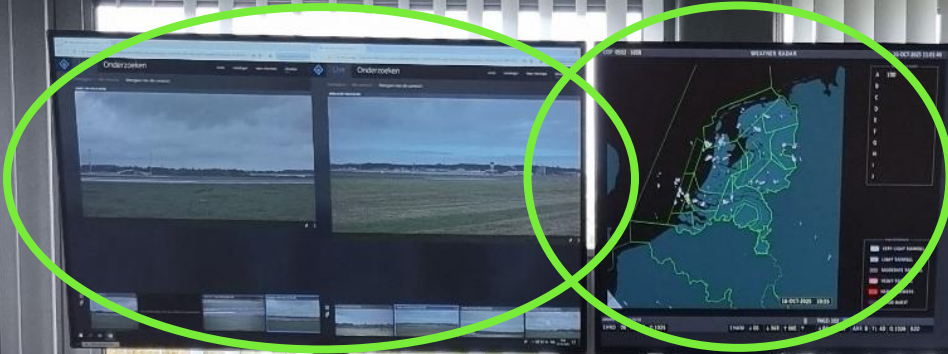
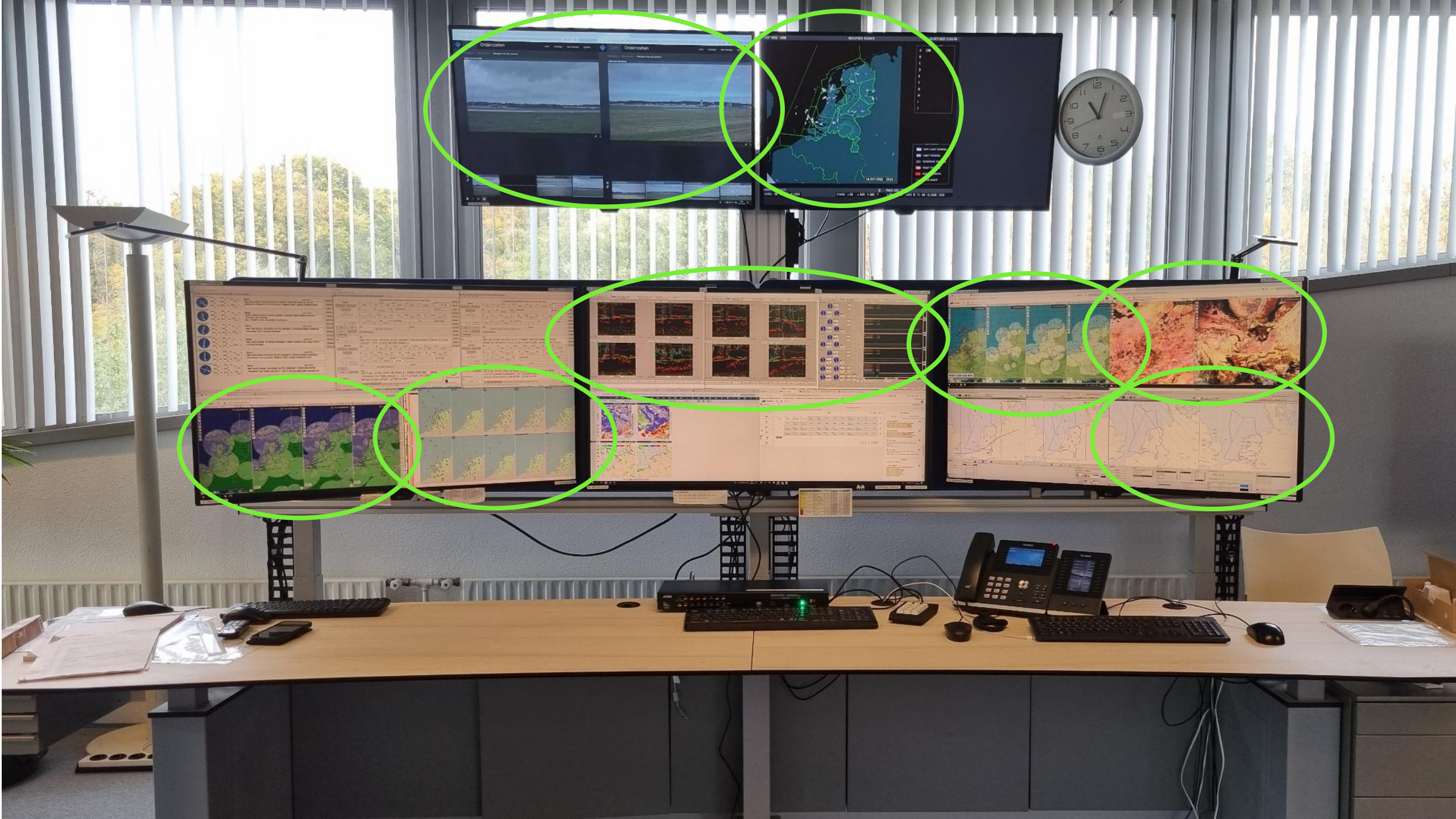
# Regiometeoroloog



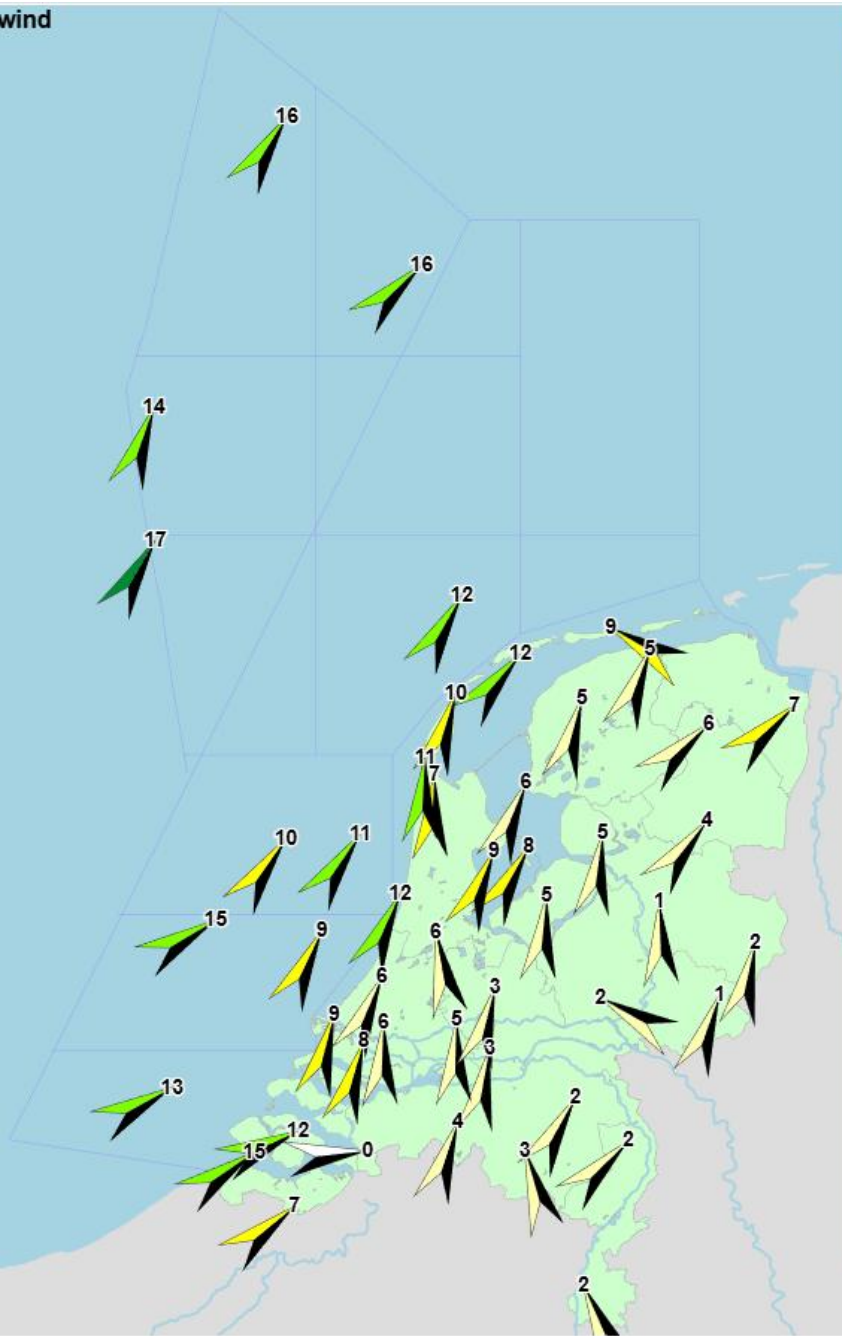
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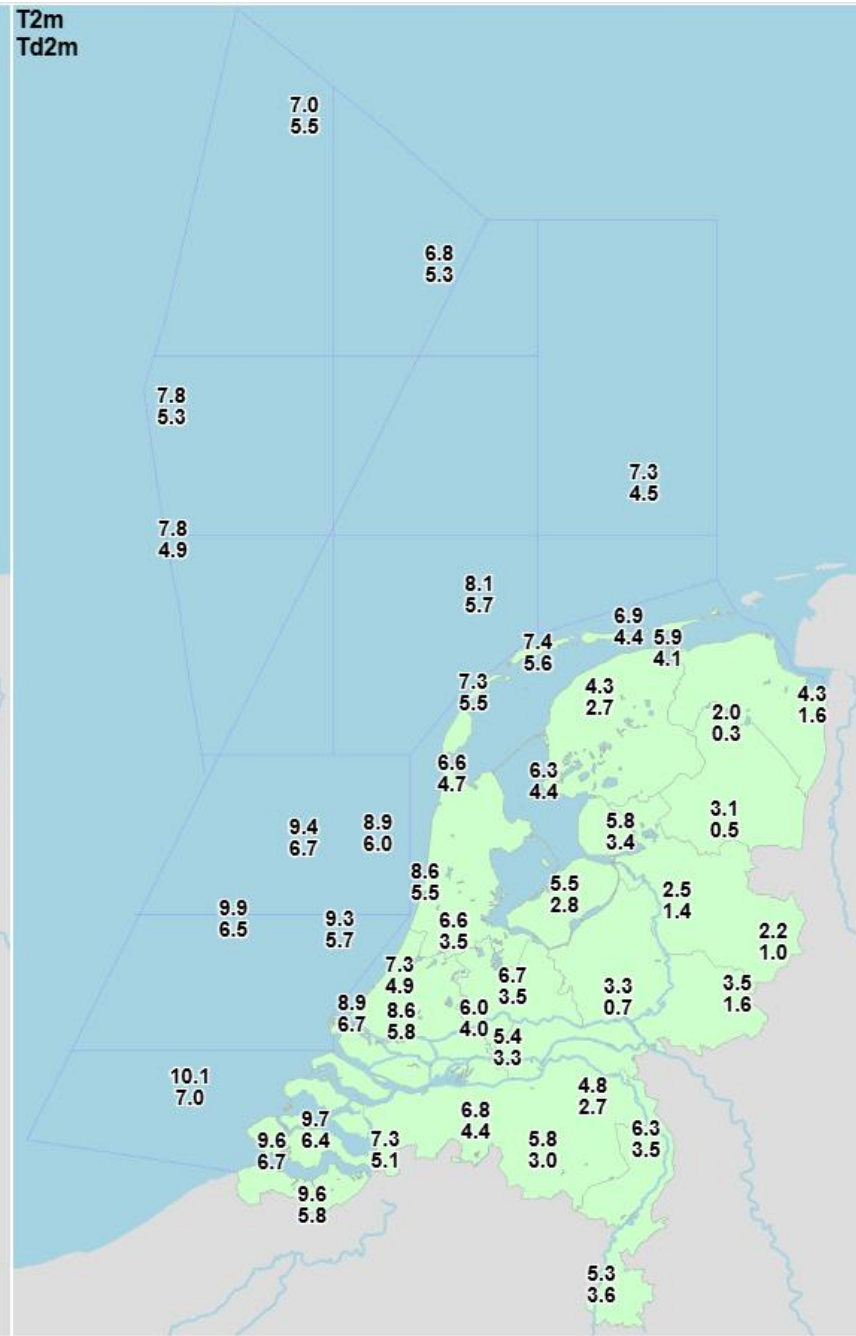
wind



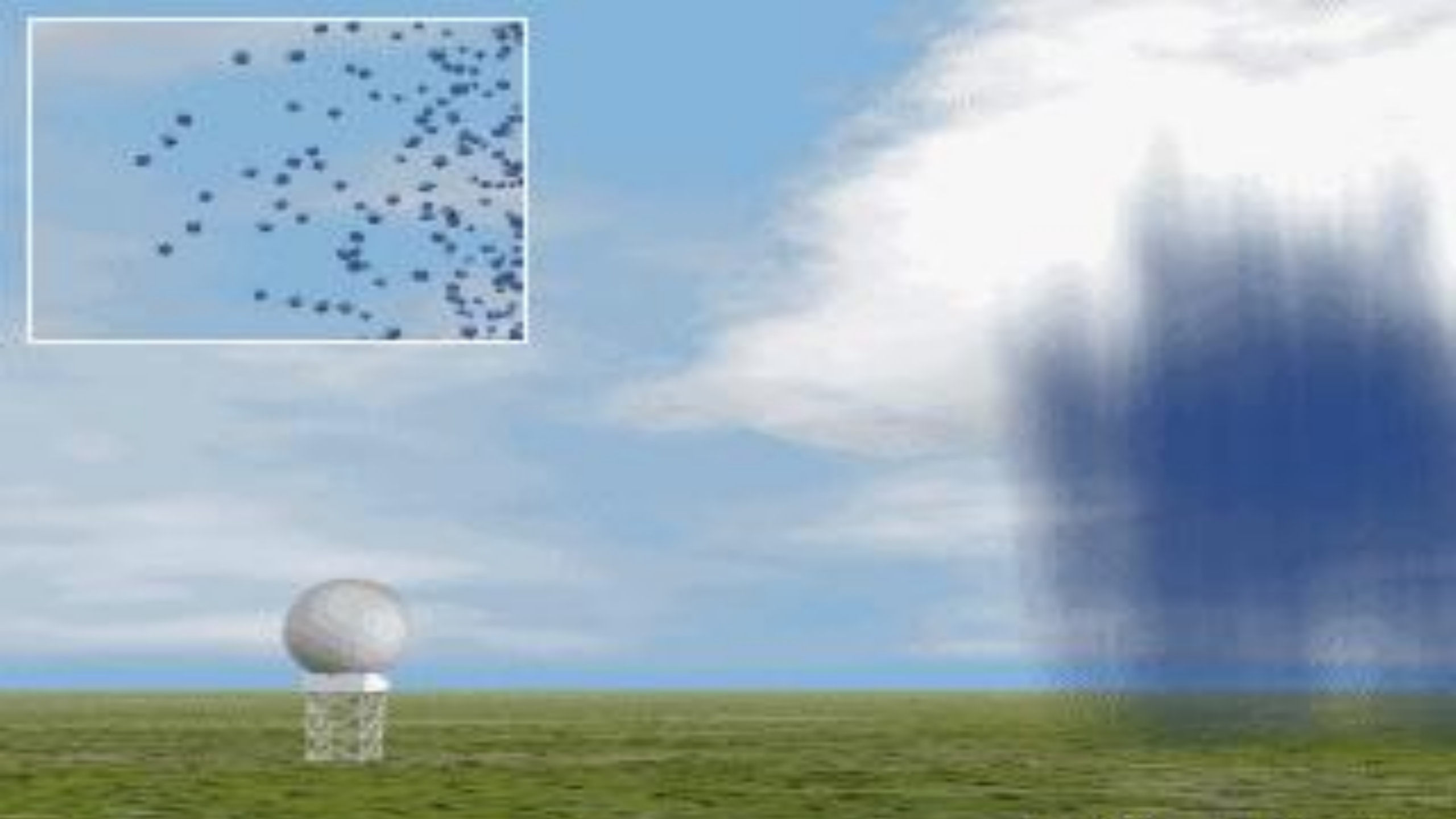
ceiling  
layer1

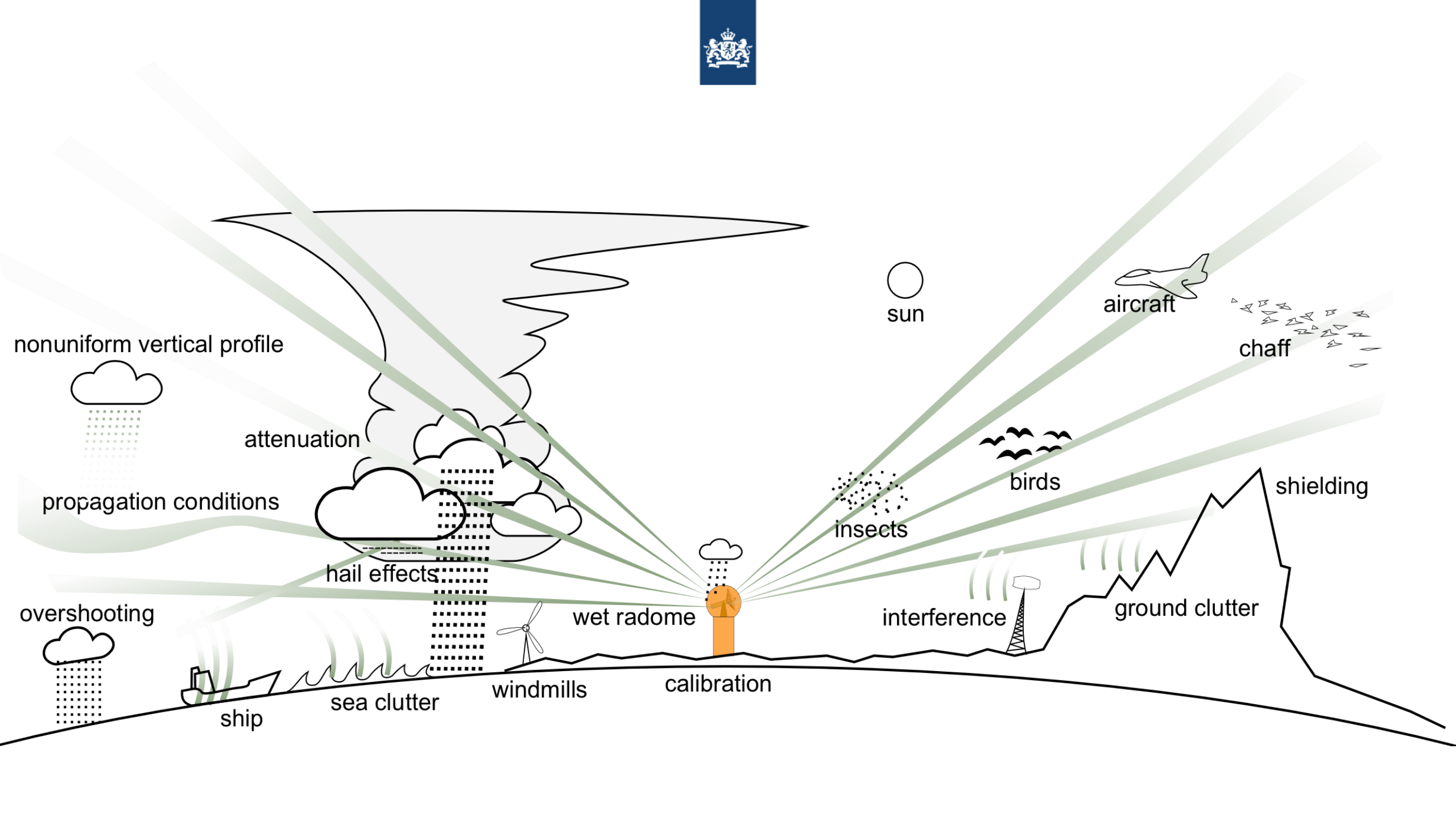


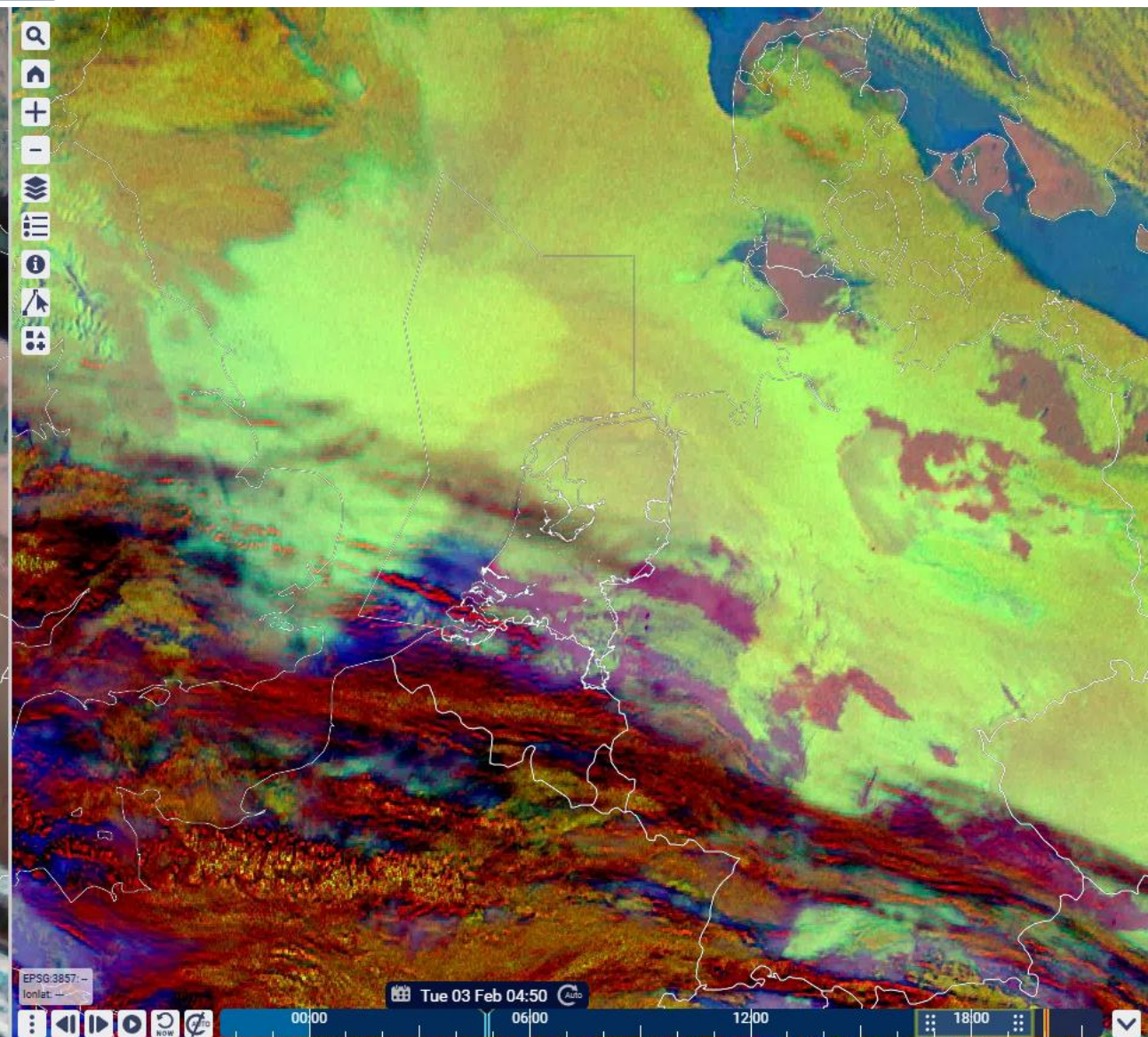
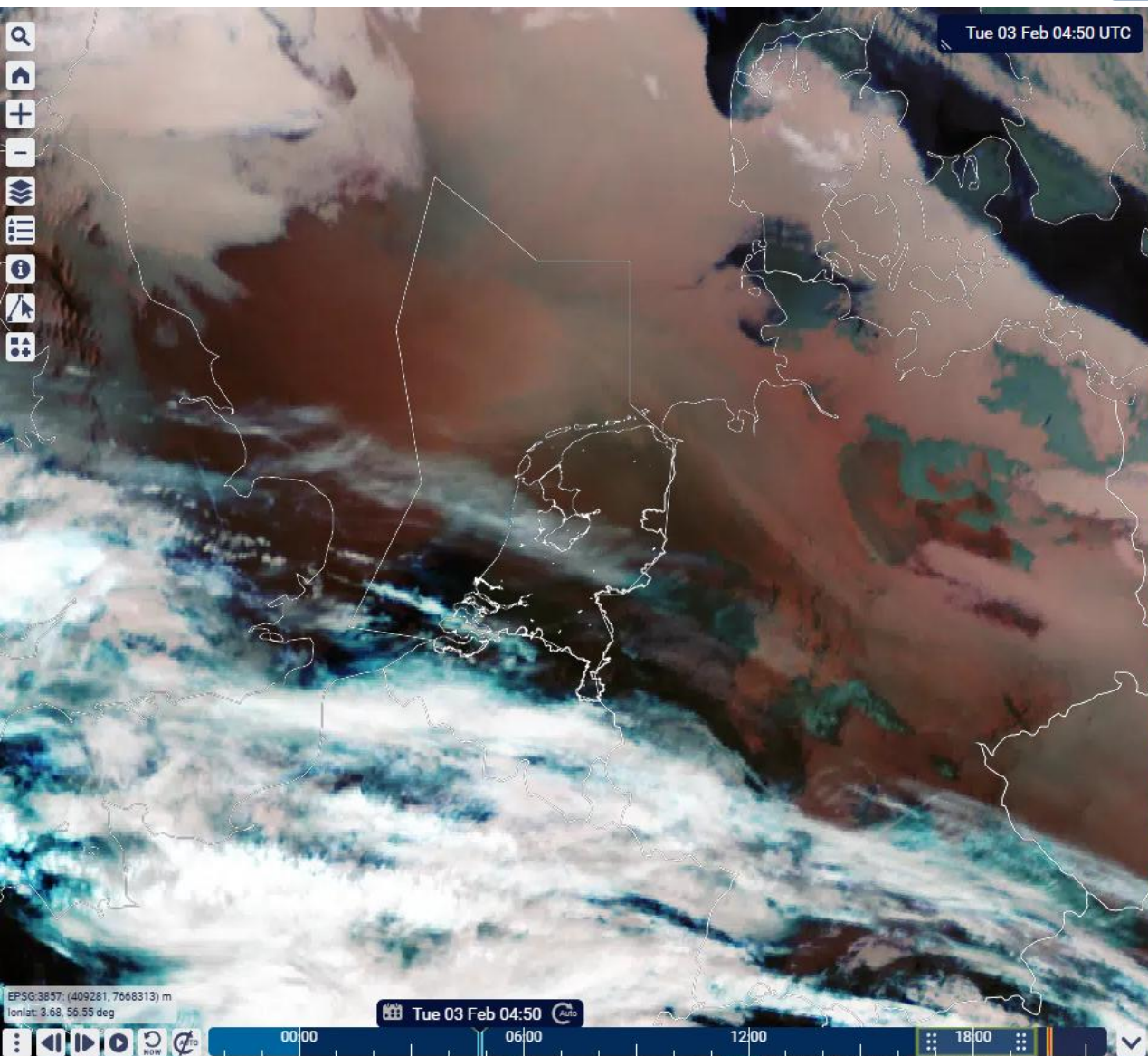
T2m  
Td2m











CRAY

CRAY

CRAY

CRAY

CRAY

CRAY

$$U + \frac{1}{a \cos^2 \theta} \left( U \frac{\partial}{\partial \theta} + V \cos \theta \frac{\partial}{\partial \theta} \right) + \frac{\partial U}{\partial \theta} + R_{dry} T_v \frac{\partial}{\partial \theta} (\ln p) =$$

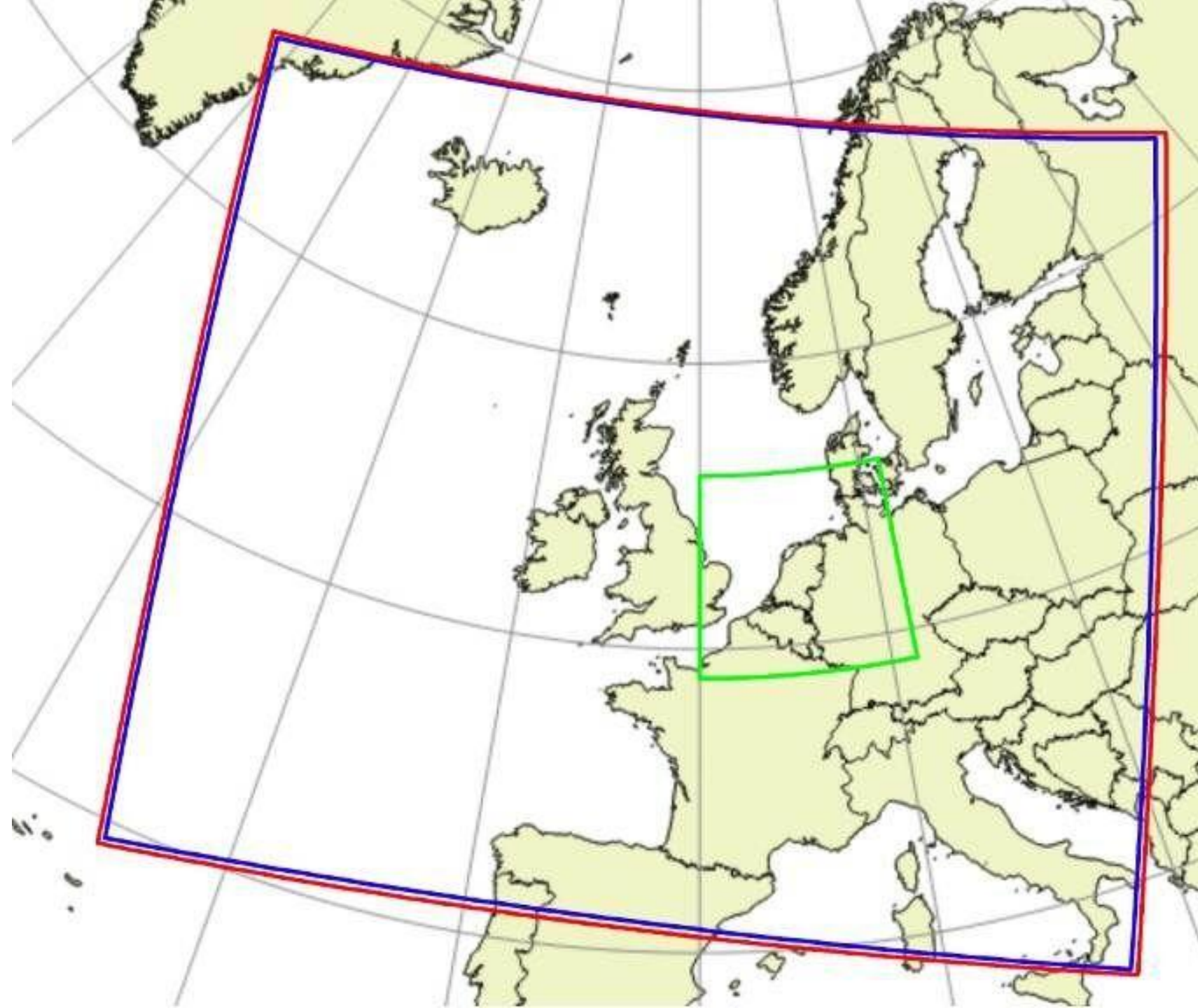
$$\frac{\partial U}{\partial \eta} - A + k_v$$

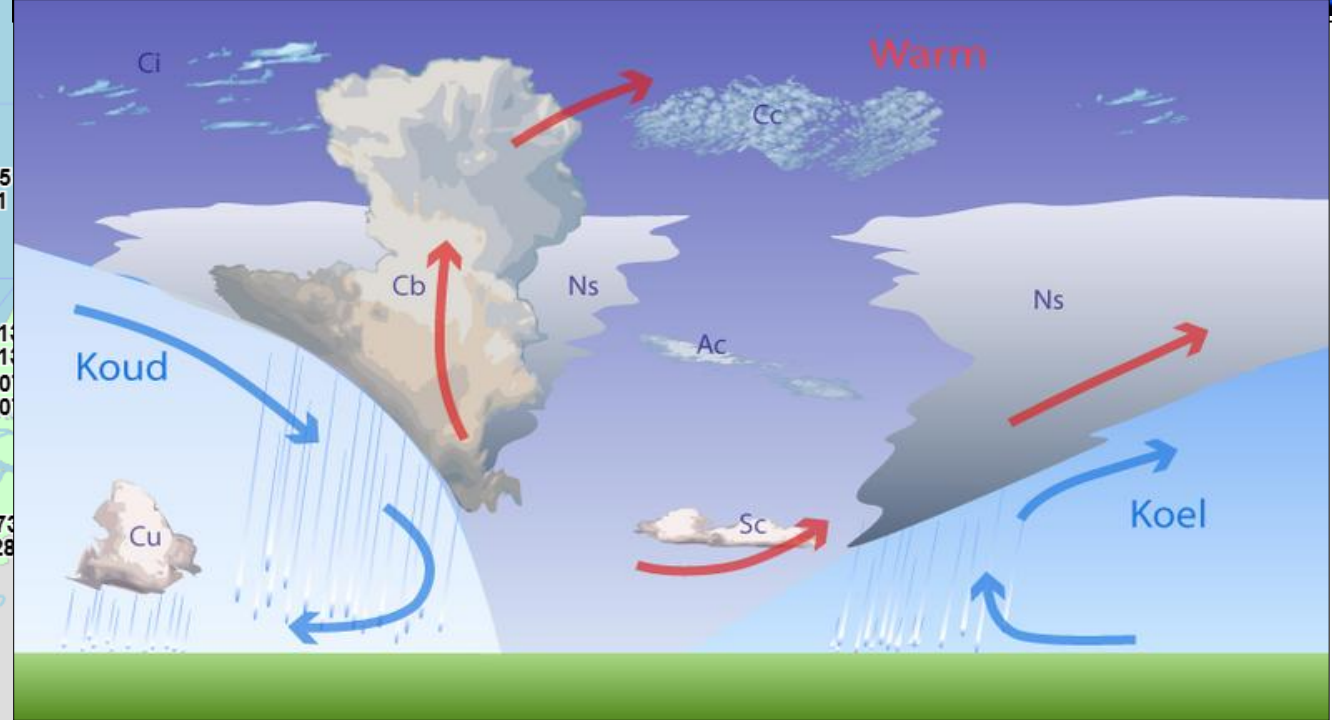
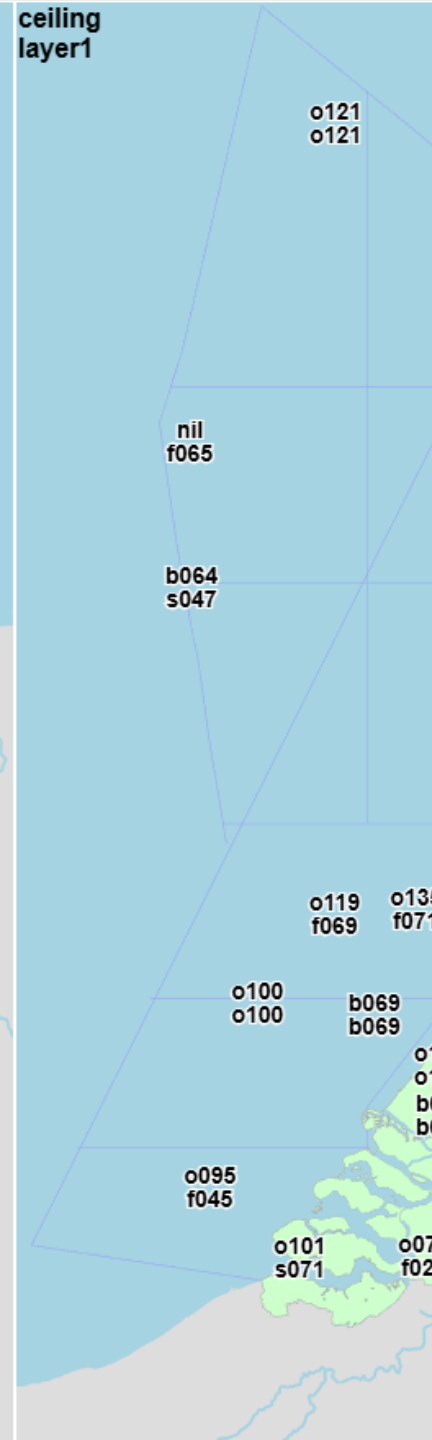
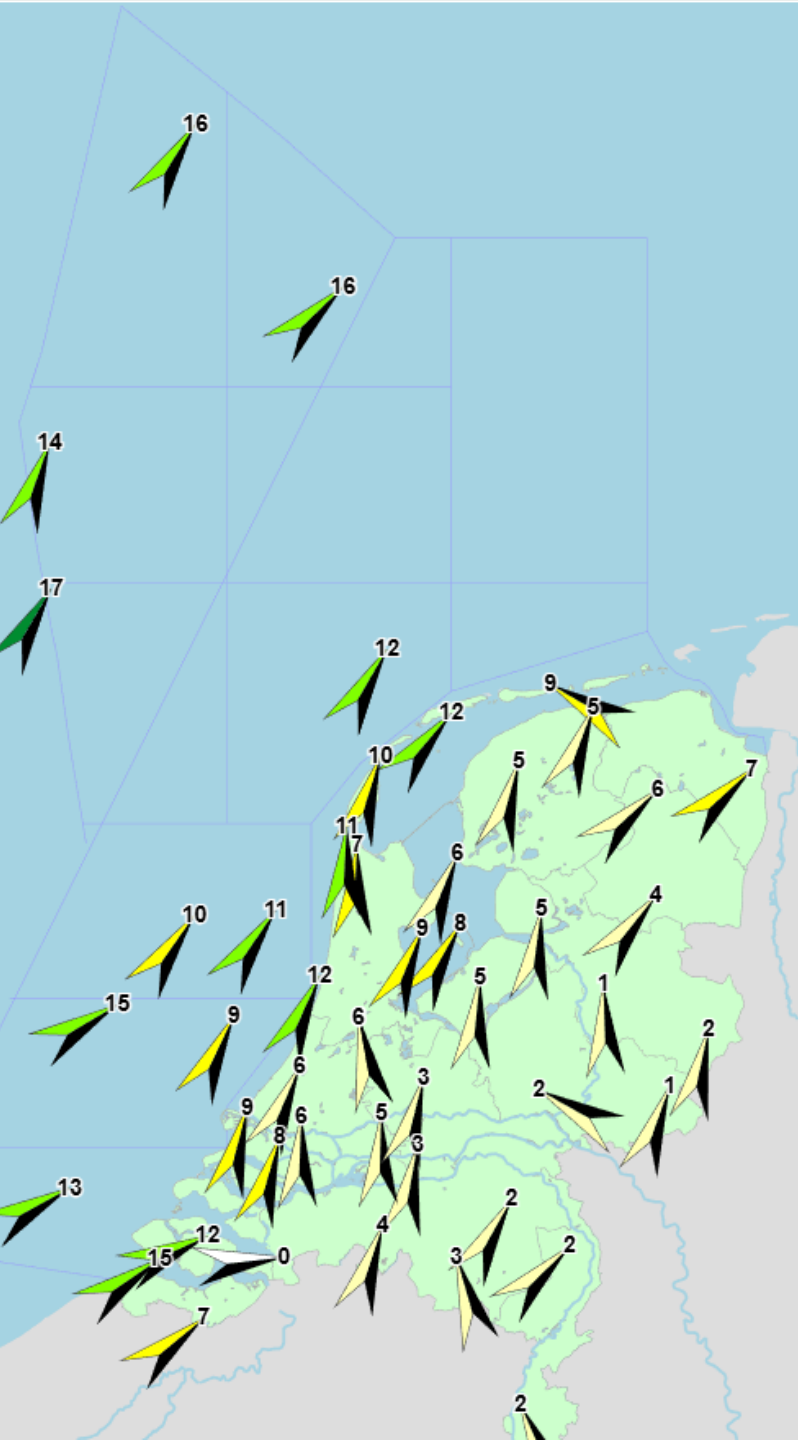
$$\frac{1}{\partial \lambda} + R_{dry} T_v \frac{\partial}{\partial \lambda} (\ln p)$$

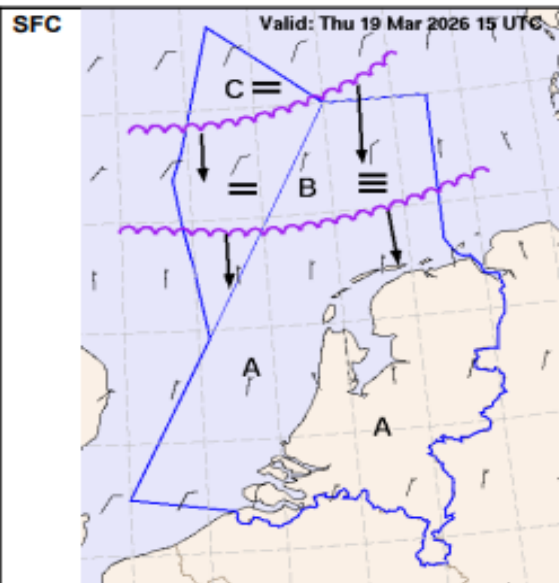
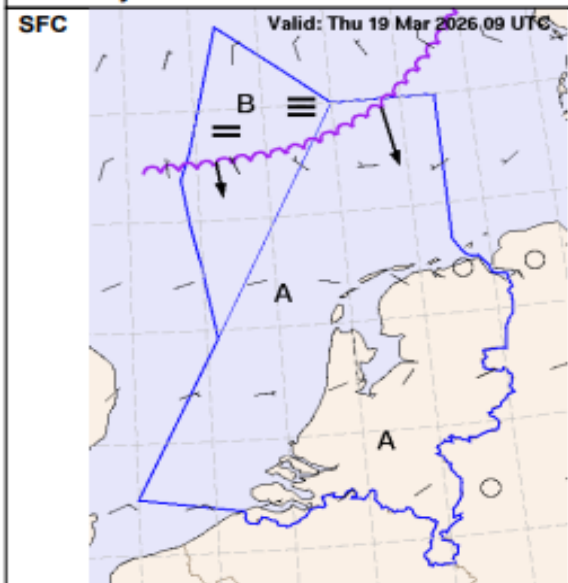
$$\frac{1}{\partial \lambda} + R_{dry} T_v \frac{\partial}{\partial \lambda} (\ln p)$$











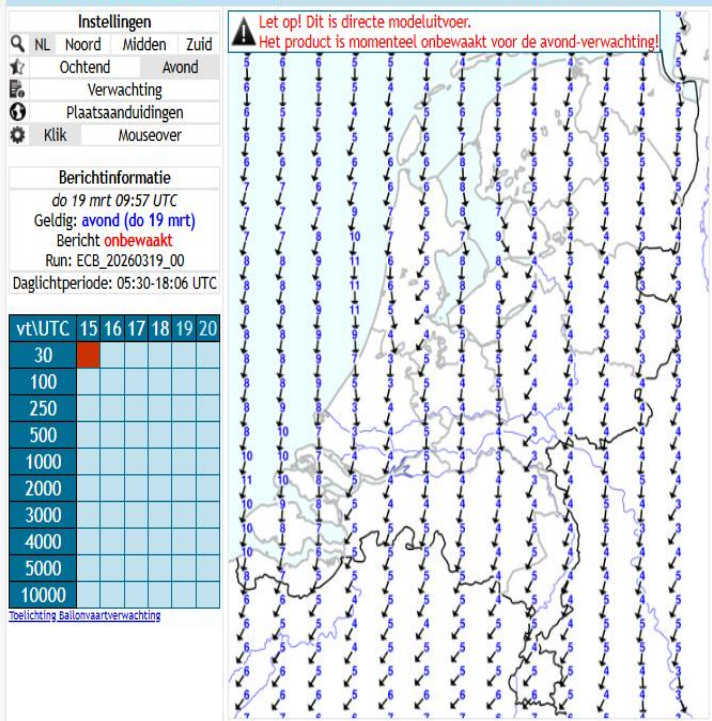
ZCZC

FT190500 EHBK MAASTRICHT/MAASTRICHT-AACHEN NLD 114 m.  
 TAF EHBK 190508Z 1906/2012 06006KT CAVOK  
 PROB30 2004/2007 4000 MIFG BR=

ZCZC

FT190500 EHGG GRONINGEN/EELDE NLD 5 m.  
 TAF EHGG 190508Z 1906/2012 06003KT CAVOK  
 TEMPO 1906/1907 4000 MIFG  
 PROB30 TEMPO 1921/2001 4000 BR BKN003=

Ballonvaartverwachting donderdag 19 maart 2026 - 15 UTC - 30 vt (kn)



ZCZC

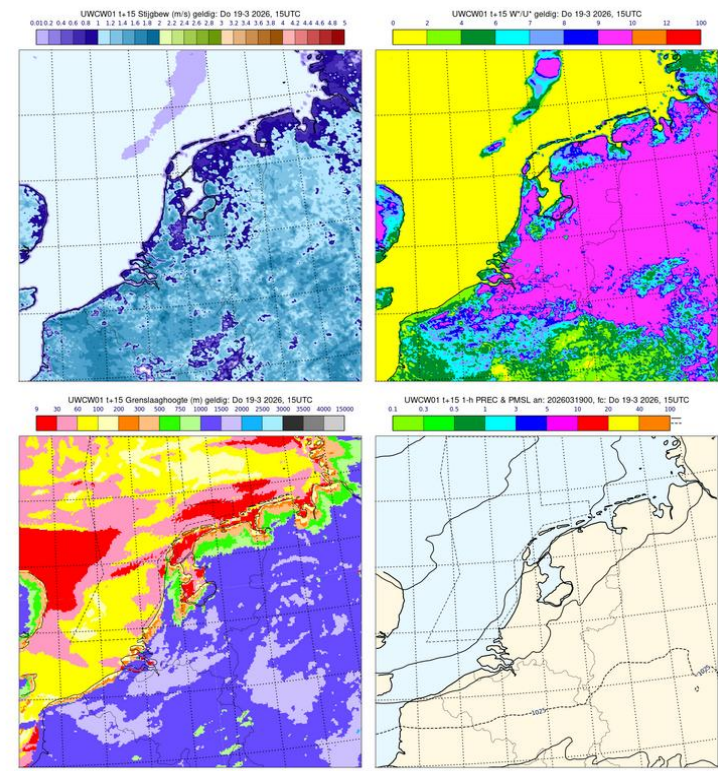
FBNL50 EHDB 190826  
 WEERBULLETIN VOOR DE LUCHTVAART -  
 GELDIG 190900/191500 UTC

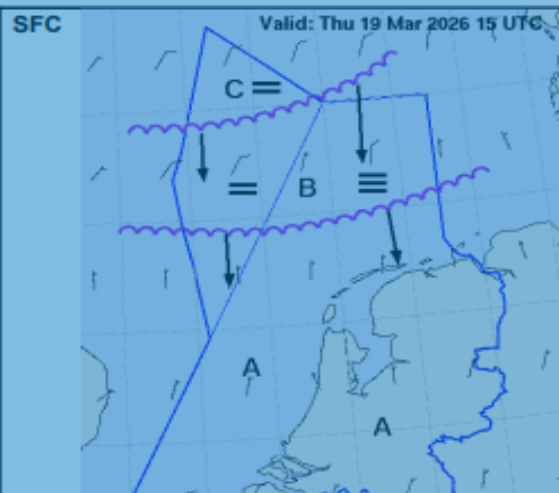
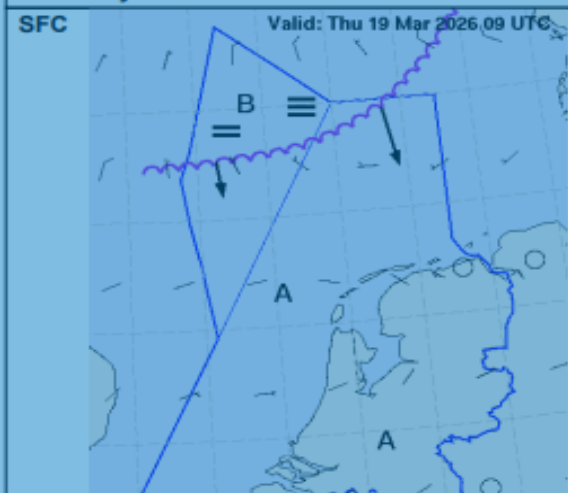
SITUATIE: AAN DE ZUIDOOSTFLANK VAN EEN HOGEDRUKGEBIED BOVEN SCHOTLAND VOERT EEN ZWAKKE NOORDOOSTELIJKE STROMING DROGE LUCHT AAN. DE ATMOSFEER WORDT SPOEDIG ONSTABIEL VAN OPBOUW CA. 1000 VT, AAN HET EINDE VAN DE PERIODE TOT CA. 4000 VT.

SIGNIFICANT WEER: GEEN.

WIND: NOORDOOSTELIJK 3-7 KN, IN DE EERSTE HELFT VAN DE PERIODE LOKAAL VARIABEL 1-3 KN. IN DE TWEEDE HELFT VAN DE PERIODE IN DE KUSTGEBIEDEN EN BOVEN HET IJSSELMEER NOORDELIJK 7-11 KN.

BEWOLKING: GEEN SIGNIFICANTE BEWOLKING.





ZCZC

FT190500 EHBK MAASTRICHT/MAASTRICHT-AACHEN NLD 114 m.  
 TAF EHBK 190508Z 1906/2012 06006KT CAVOK  
 PROB30 2004/2007 4000 MIFG BR=

ZCZC

FT190500 EHGG GRONINGEN/EELDE NLD 5 m.  
 TAF EHGG 190508Z 1906/2012 06003KT CAVOK  
 TEMPO 1906/1907 4000 MIFG

EHAA AIRMET 2 valid 121300/121500 EHDB-  
 EHAA AMSTERDAM FIR ISOL TSGR OBS N5210 E00548 TOP ABV FL100 MOV NNE 35KT  
 INTSF

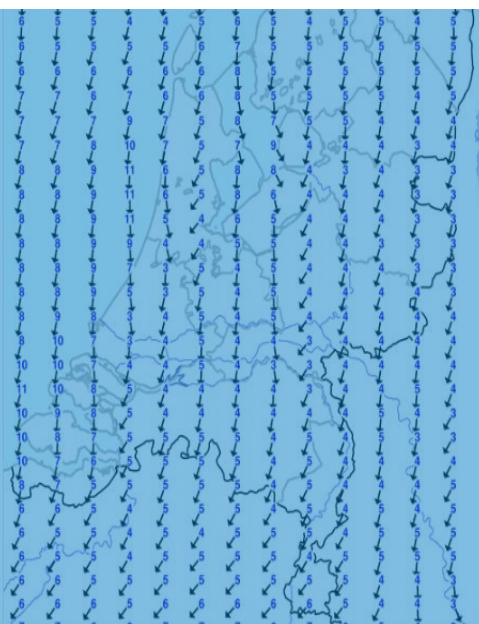
Ballonvaartverwach

Instellingen  
 NL Noord Midden  
 Ochtend  
 Verwachting  
 Plaatsaanduidingen  
 Klik Mouseover

Berichtinformatie  
 do 19 mrt 09:57 UTC  
 Geldig: avond (do 19 mrt)  
 Bericht onbewaakt  
 Run: ECB\_20260319\_00  
 Daglichtperiode: 05:30-18:06 UTC

vtUTC	15	16	17	18	19	20
30						
100						
250						
500						
1000						
2000						
3000						
4000						
5000						
10000						

toelichting Ballonvaartverwachting



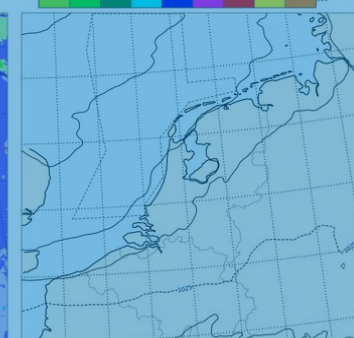
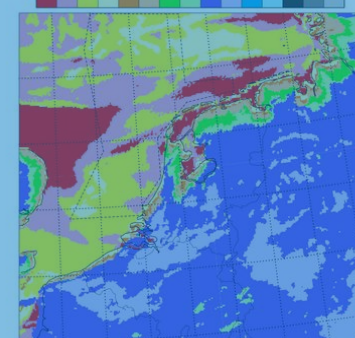
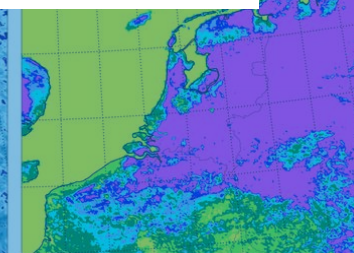
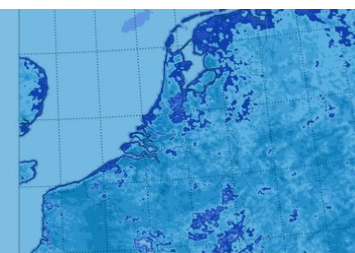
GELDIG 190900/191500 UTC

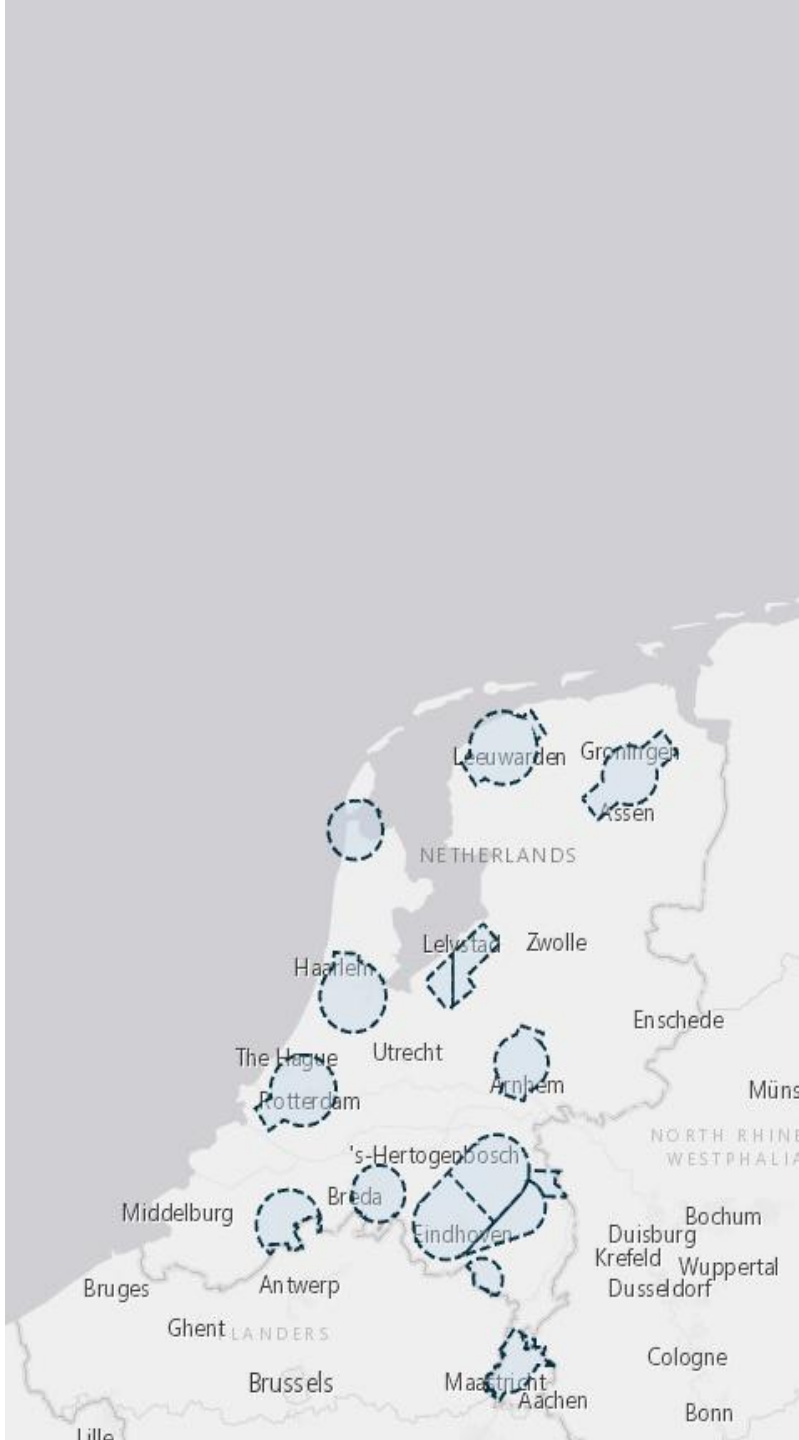
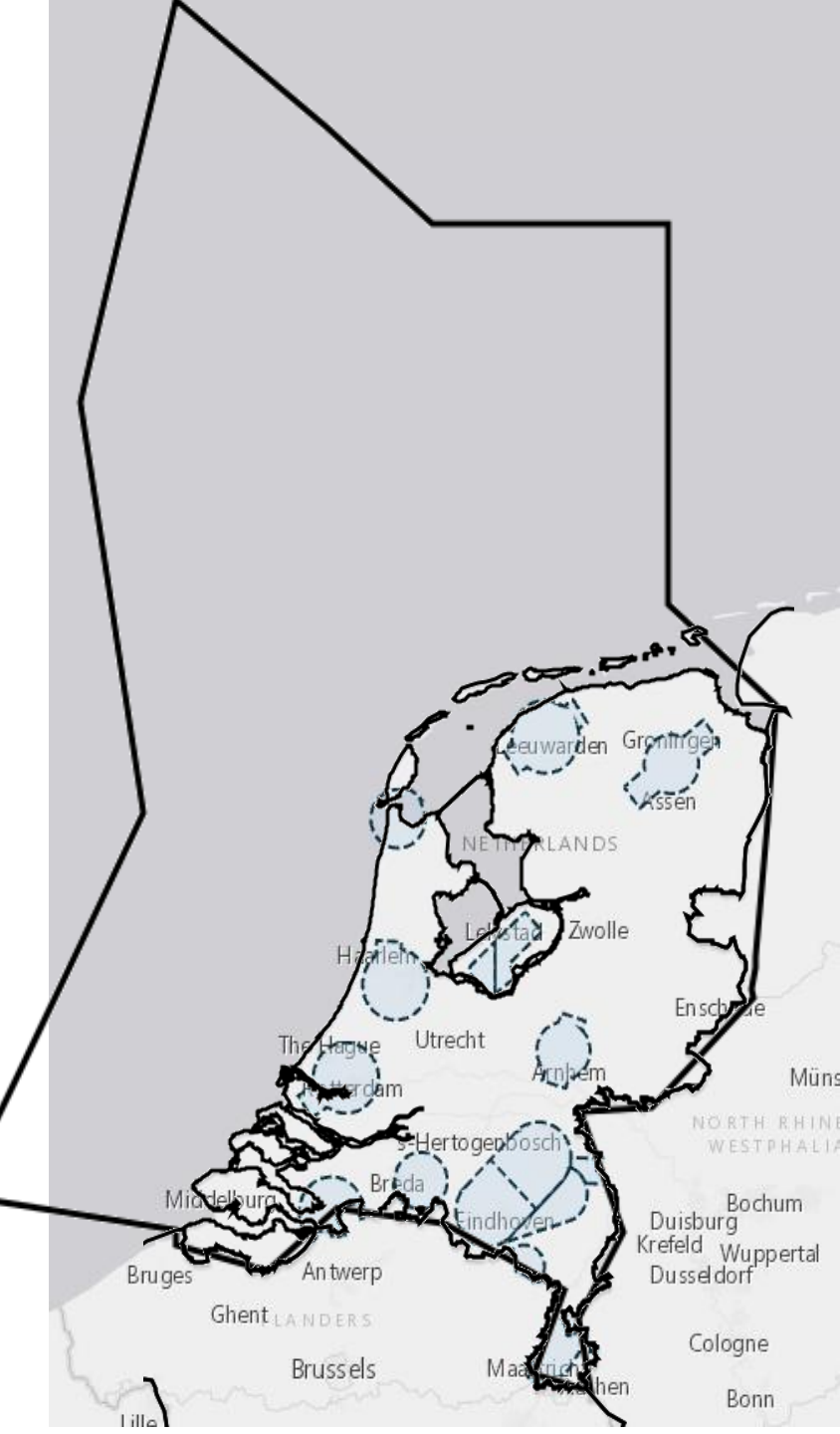
SITUATIE: AAN DE ZUIDOOSTFLANK VAN EEN HOGEDRUKGEBIED BOVEN SCHOTLAND VOERT EEN ZWAKKE NOORDOOSTELIJKE STROMING DROGE LUCHT AAN. DE ATMOSFEER WORDT SPOEDIG ONSTABIEL VAN OPBOUW CA. 1000 VT, AAN HET EINDE VAN DE PERIODE TOT CA. 4000 VT.

SIGNIFICANT WEER: GEEN.

WIND: NOORDOOSTELIJK 3-7 KN, IN DE EERSTE HELFT VAN DE PERIODE LOKAAL VARIABEL 1-3 KN. IN DE TWEEDE HELFT VAN DE PERIODE IN DE KUSTGEBIEDEN EN BOVEN HET IJSSELMEER NOORDELIJK 7-11 KN.

BEWOLKING: GEEN SIGNIFICANTE BEWOLKING.







## **VIS (m)**

- > 8000
- > 5000
- > 3000
- > 1500
- > 0800
- > 0600
- > 0350
- > 0150

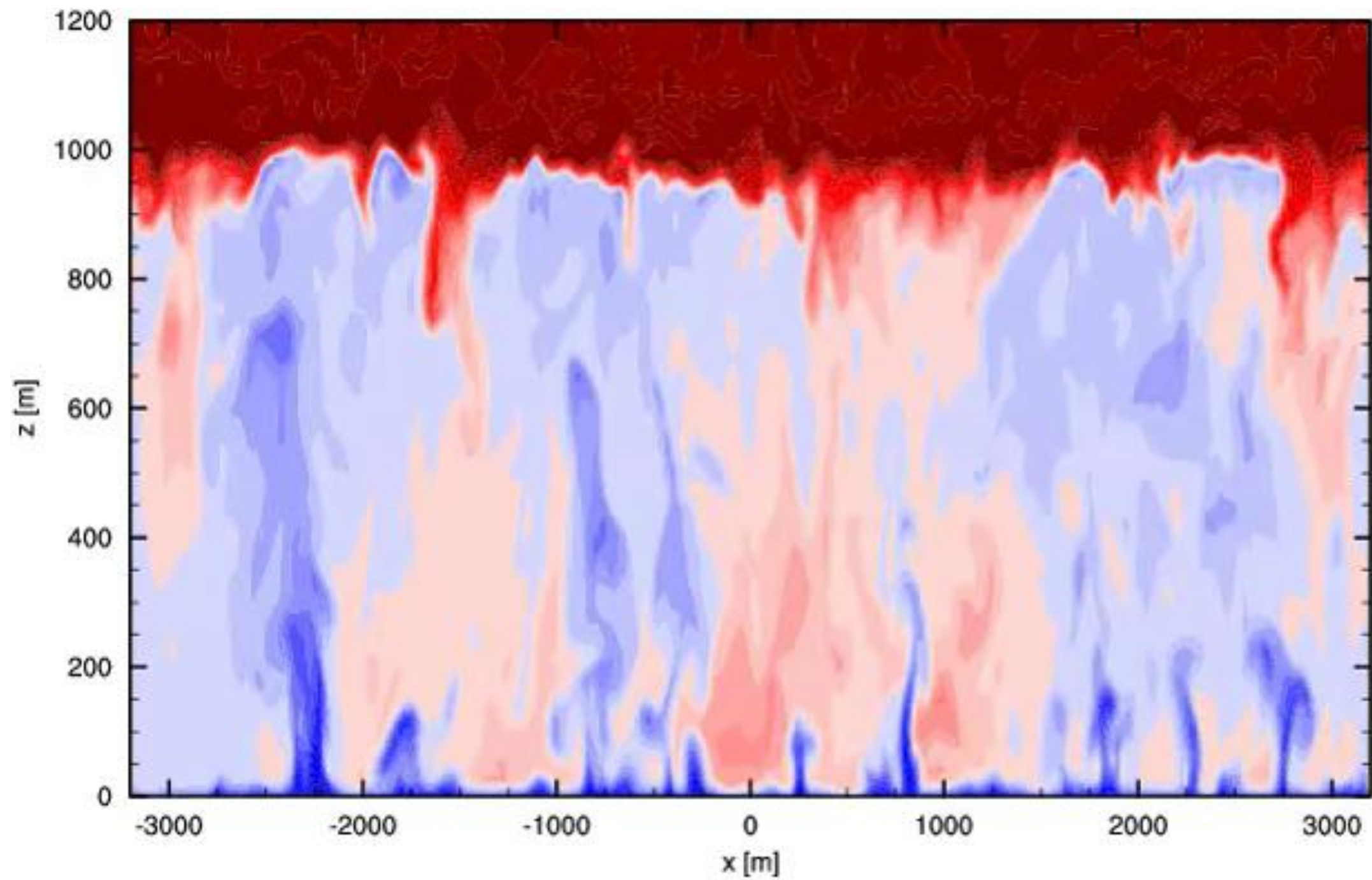
## **Cloud (ft)**

- > 1500
- > 1000
- > 0500
- > 0300
- > 0200
- > 0100

## **Wind**

- > Snelheidsverandering > 10 kn
- > Richtingverandering > 30° (als snelheid > 10 kn is)







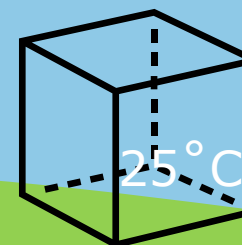
# Onstabiliteit

## Lift

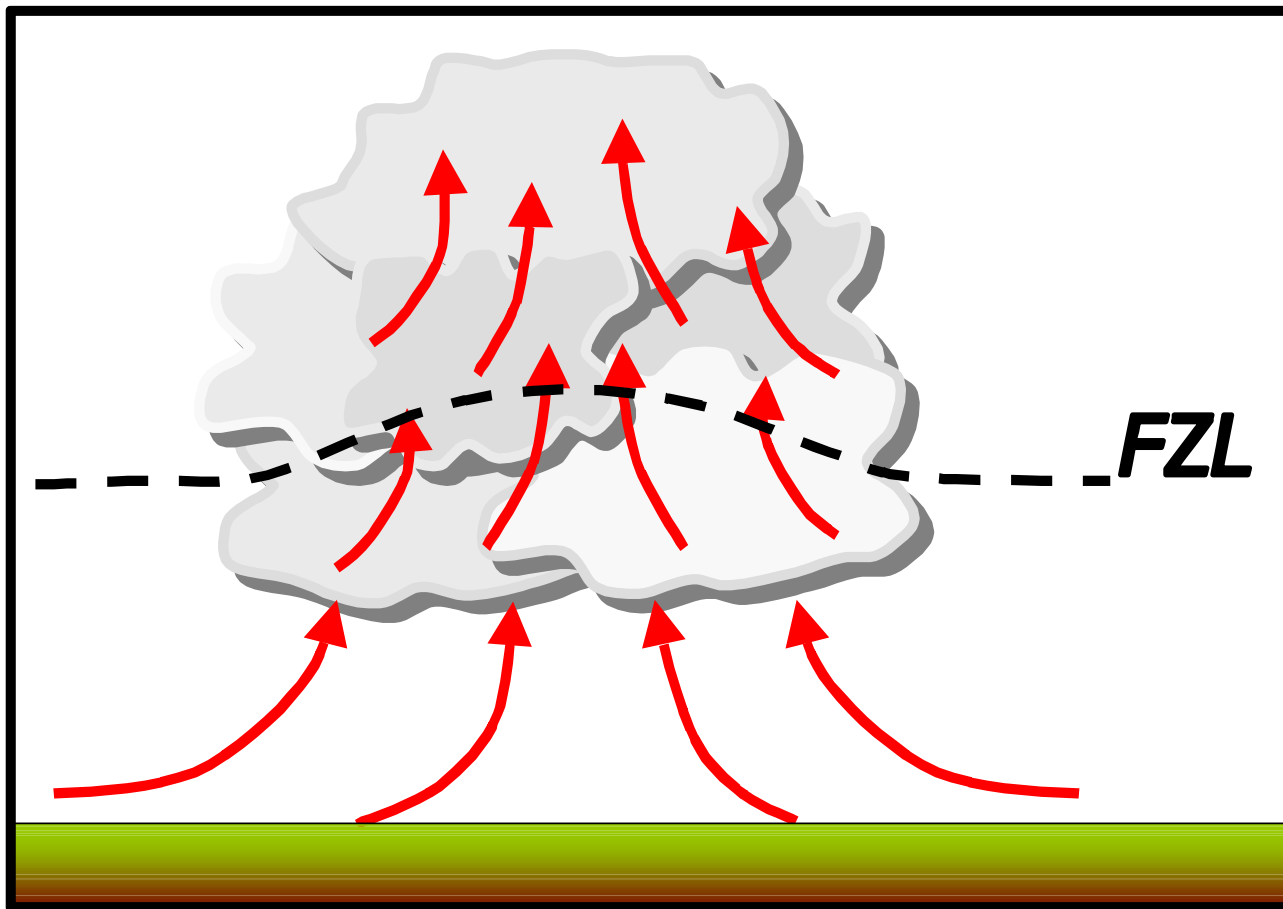
## Vocht

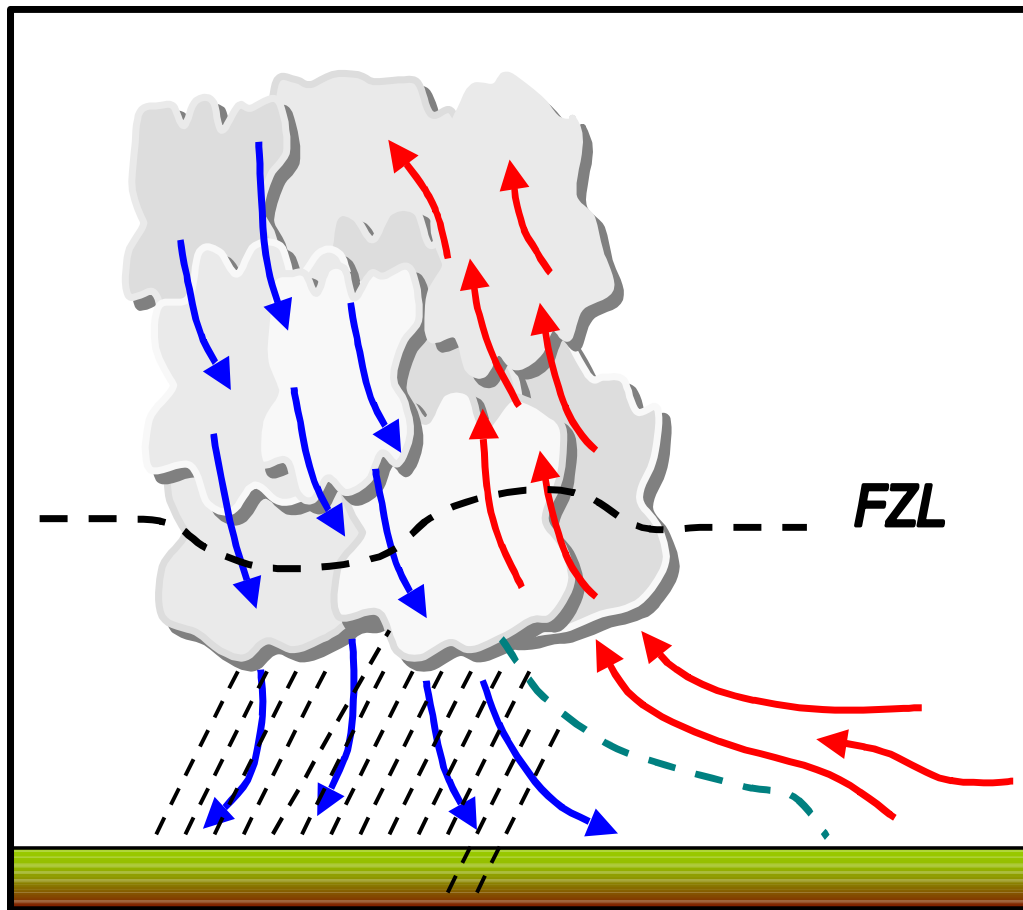


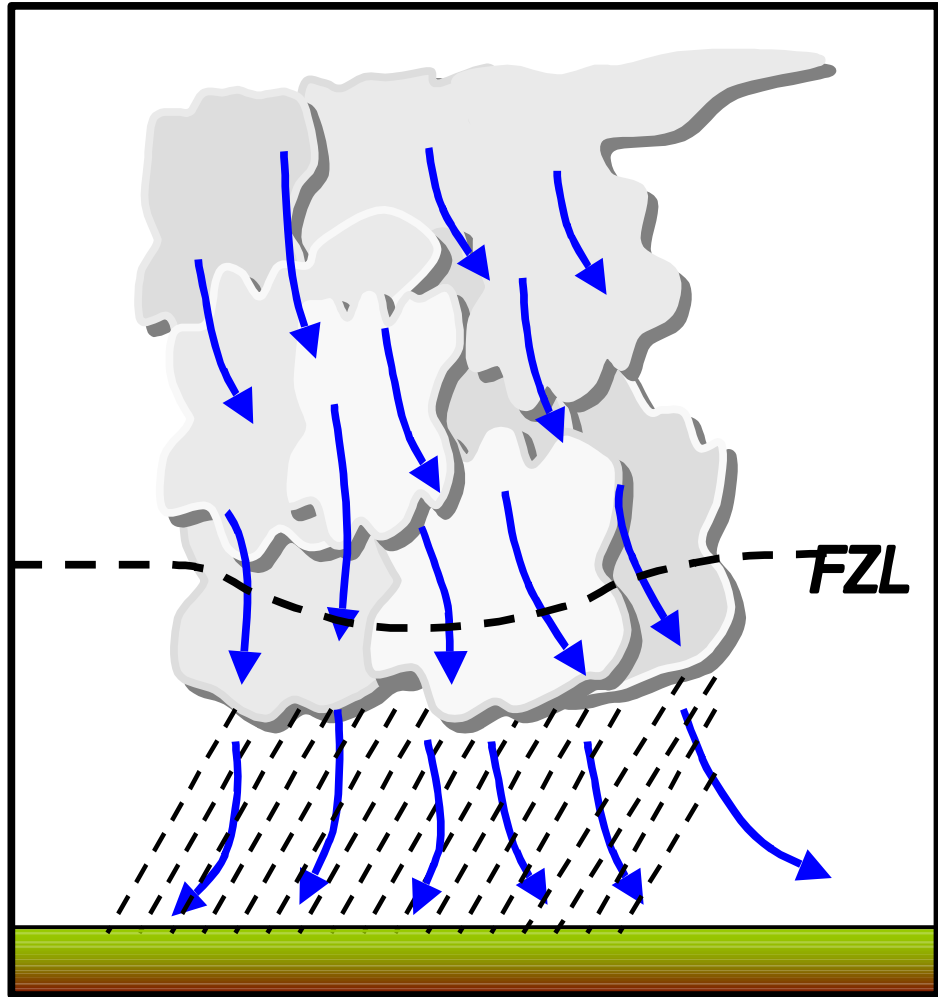
24°C





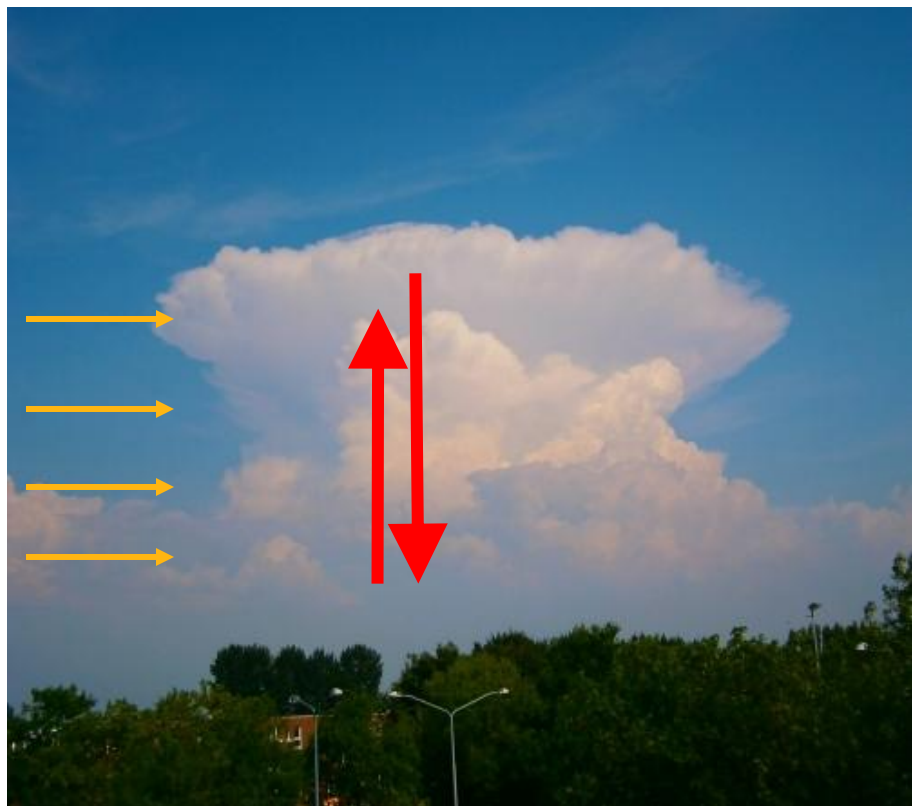




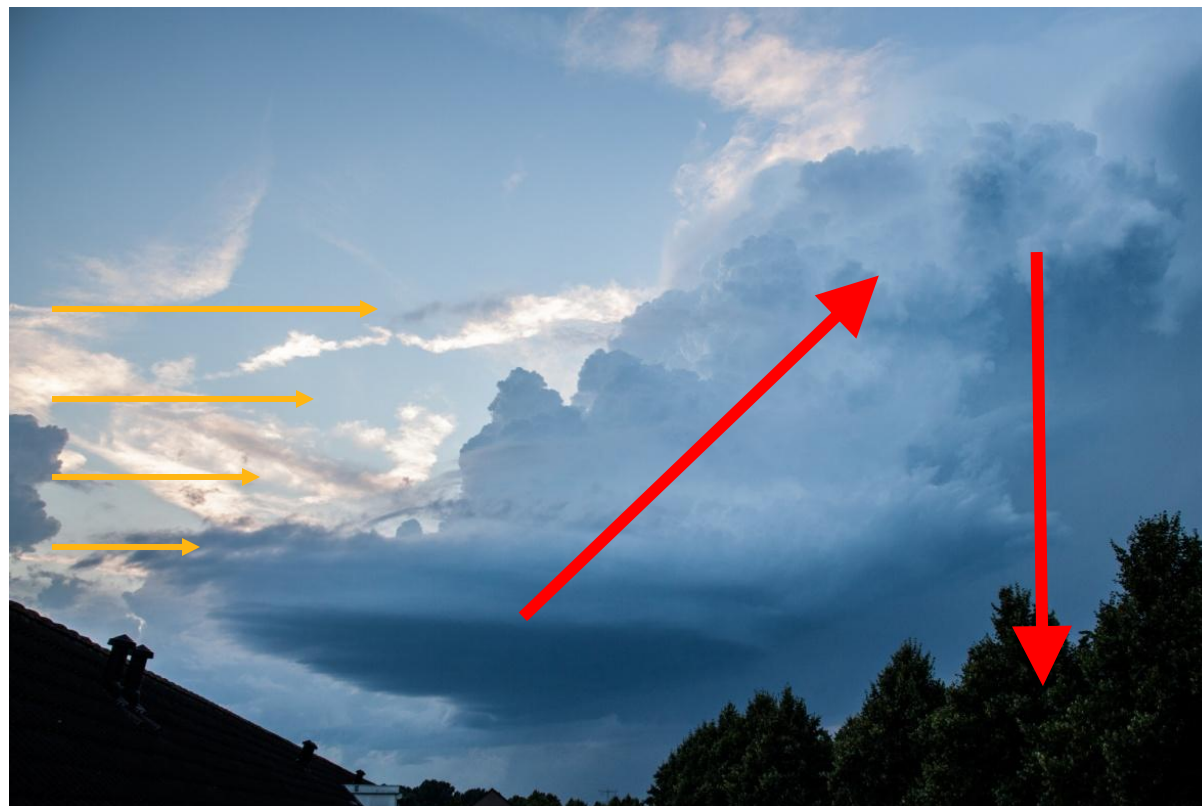




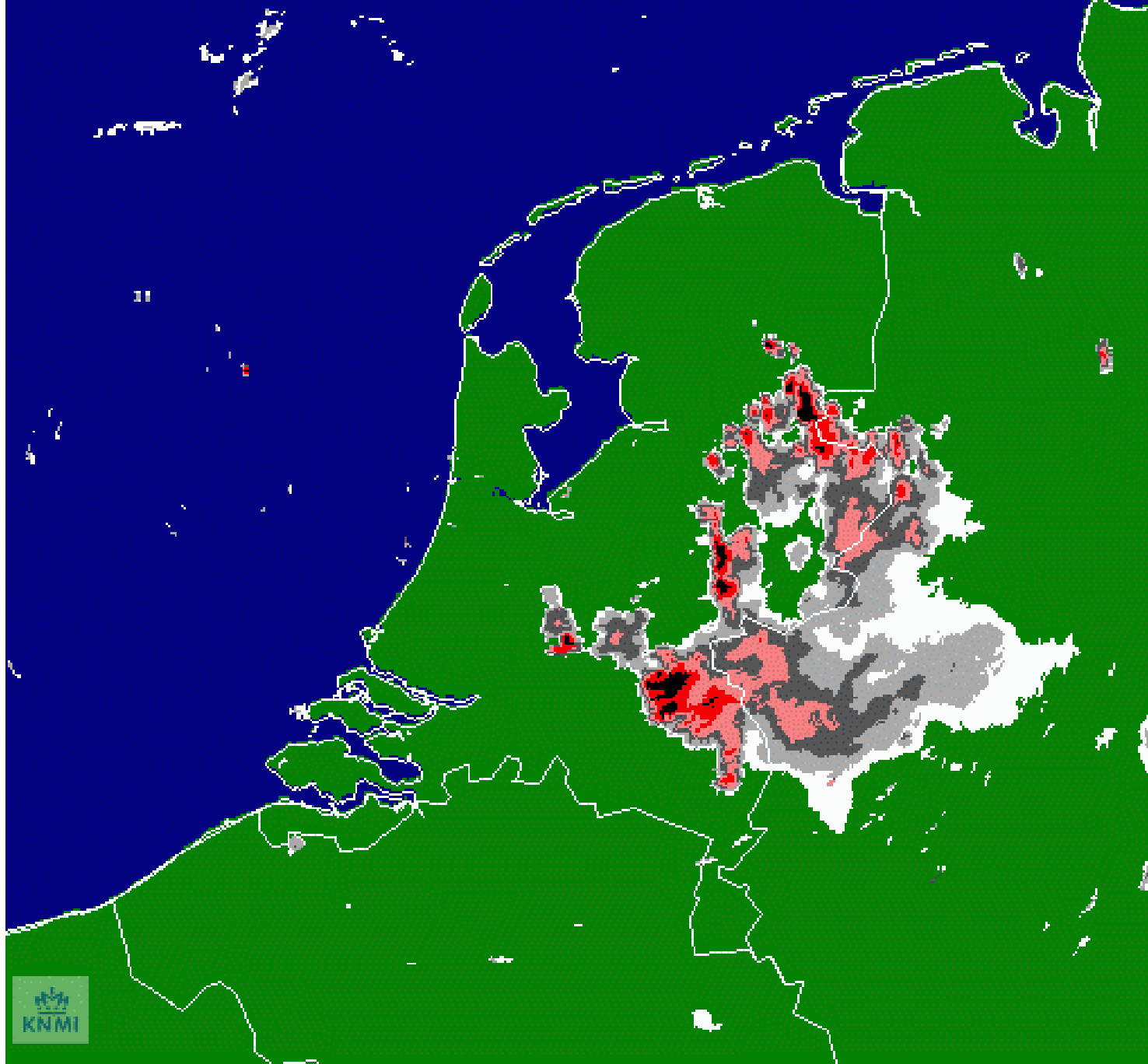
# Pulse storm



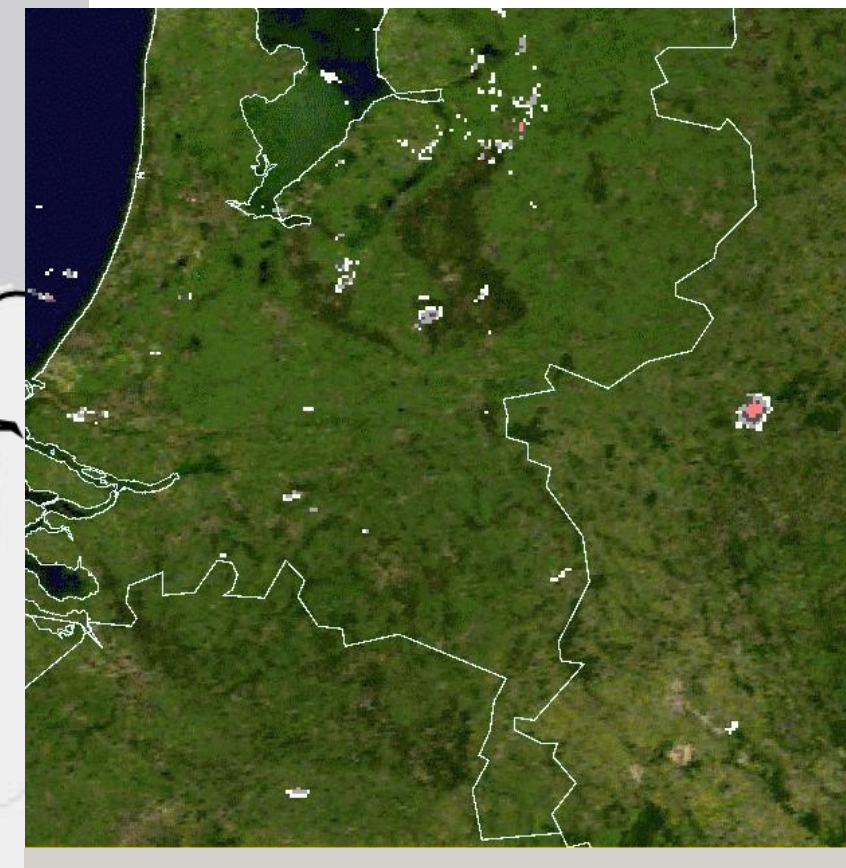
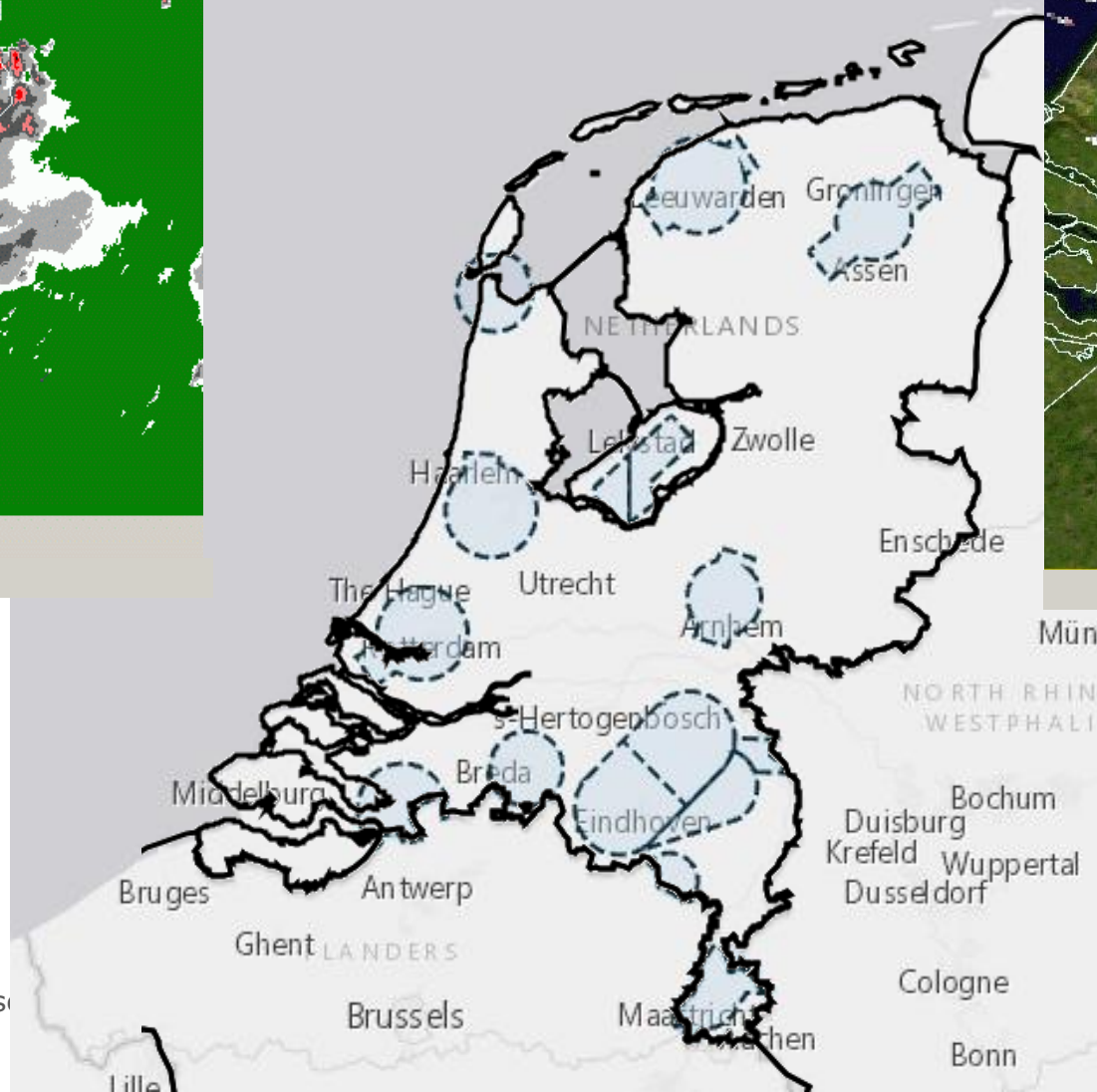
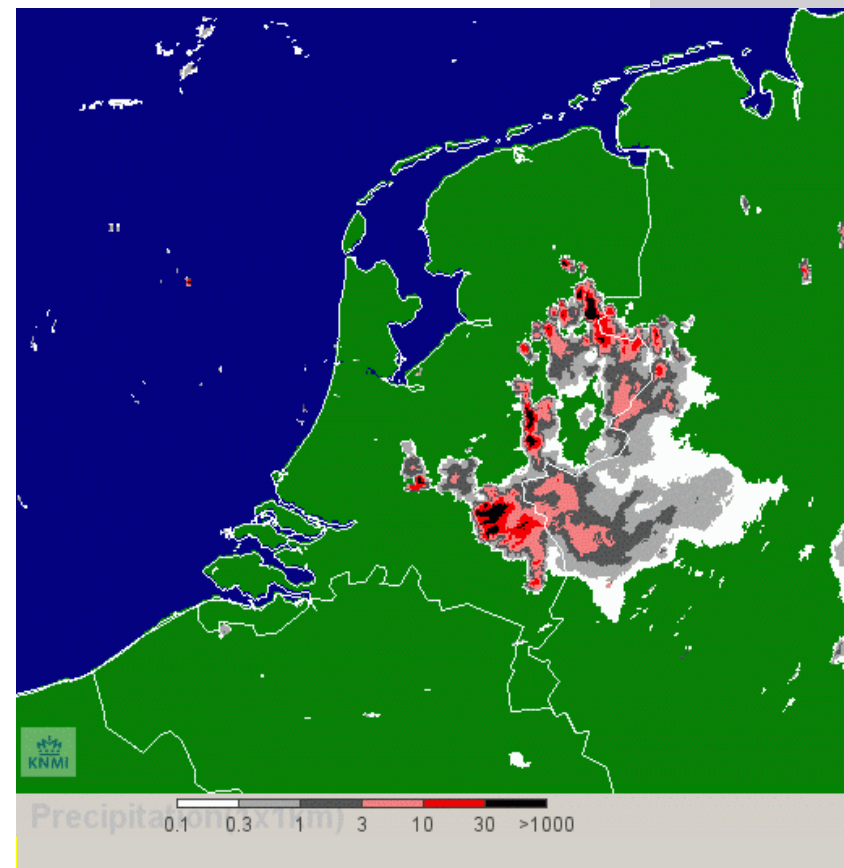
# Multi-cell







Precipitation (mm) 0.1 0.3 1 3 10 30 >1000



**SNEAK PEEK**



Weather Radar, Satellite & NL Obs

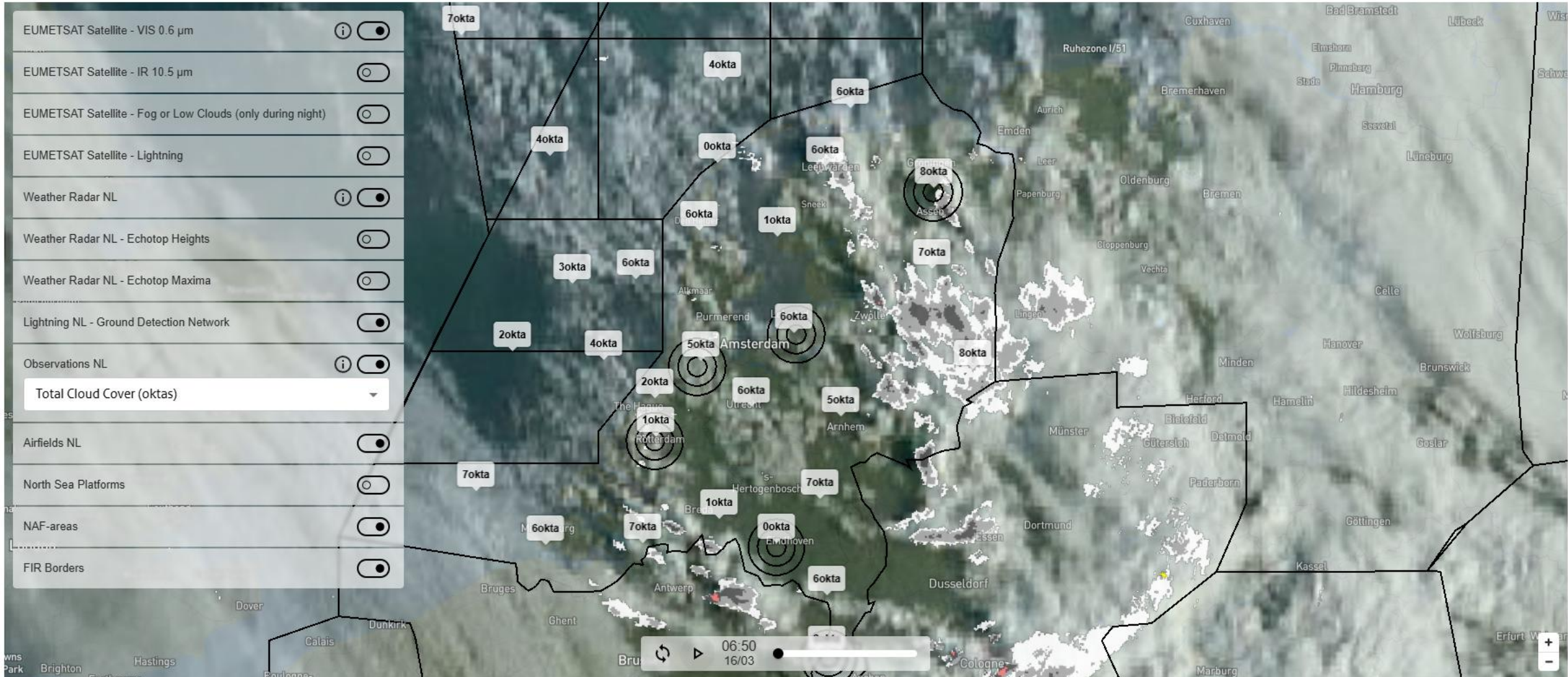
# Weather Radar, Satellite & NL Obs



-2h to +8h

UTC+00:00

## Weather Radar, Satellite & NL Obs

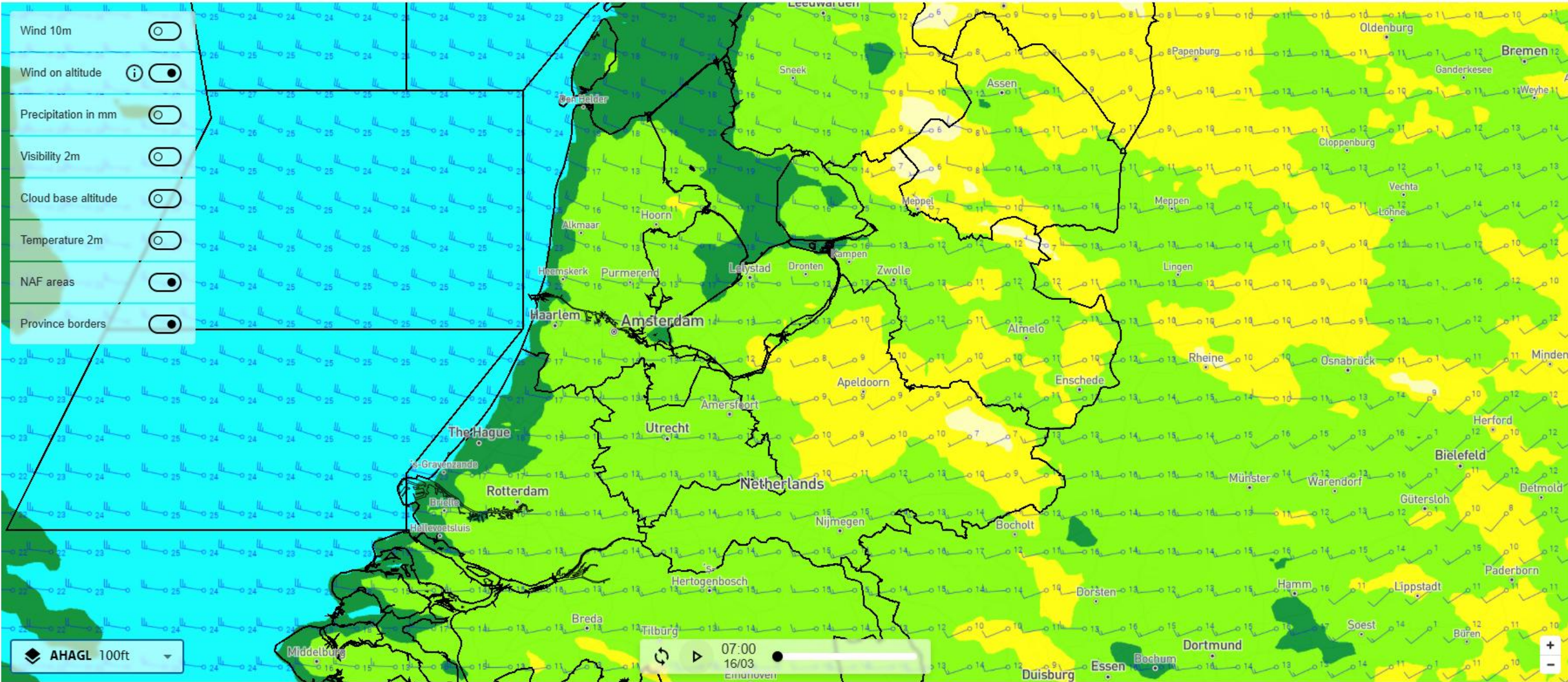


18 february 2026





### HARMONIE 43 NL





Model data

## Model Time Series

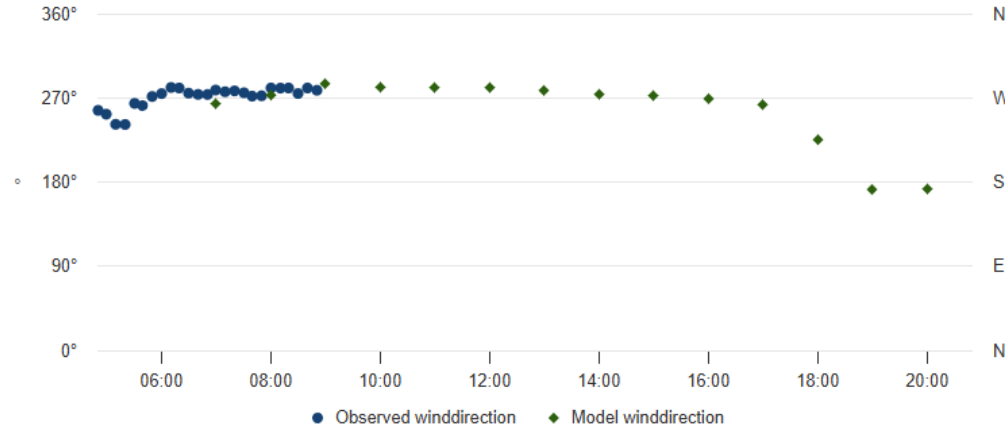


De Bilt (AWS)

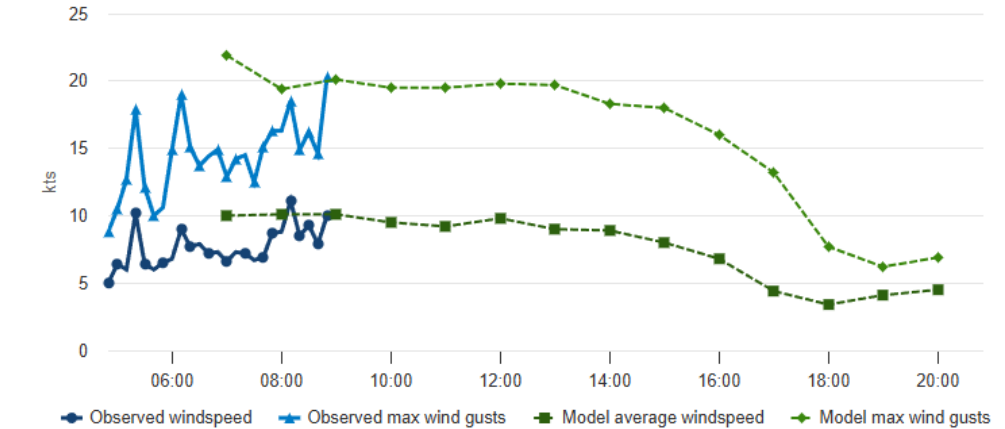
-4h to +12h

UTC+00:00

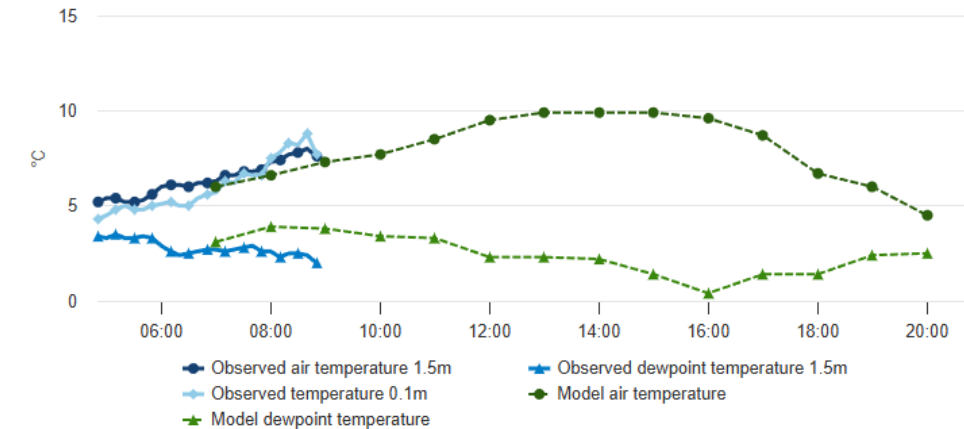
### Winddirection 10m



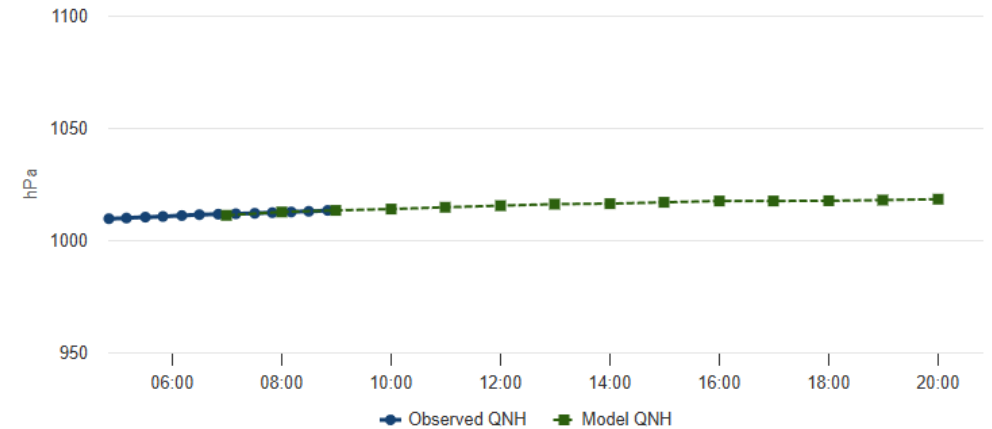
### Windspeed 10m



### Temperature



### QNH





# Geniet van het zomerseizoen!

Testgebruiker luchtvaartmeteo.nl: [roy.gommer@knmi.nl](mailto:roy.gommer@knmi.nl)

Ballon: 0900 202 33 40

VFR: 0900 202 33 41

IFR: 0900 202 33 43



Ministerie van Infrastructuur  
en Waterstaat

# Ontwikkelingen General Aviation

GA Season Opener

21-03-2026



# Introductie



Arjan Vermeij

Senior beleidsmedewerker

CPL SEP brevethouder

Ministerie van IenW

Directie Onbemande  
Luchtvaart, Luchtruim en  
Luchthavens

Afdeling Luchtruim





# Hoofdthema's vandaag

- › Actualiteiten
- › Economische betekenis van GA in Nederland
- › Vliegen in de nabijheid van snel militair verkeer



# Schuivende panelen - veiligheid

- > Hernieuwde focus op nationale veiligheid
- > Nationaal Programma Ruimte voor Defensie (NPRD)
- > Wet op de defensie gereedheid (WODG)
- > Toenemende vraag naar luchtruim voor gebruik (nieuwe) onbemande systemen defensie
- > Groot oefengebied F-35 in het noorden (Cross Border Area Noord)
- > GA speelt een rol bij weerbaarheid Nederland met o.a. opleidingen, inspecties cruciale infrastructuur en vervoer naar offshore locaties



# Schuivende panelen – interne prioriteiten

- › Regeerakkoord: toekomst Lelystad Airport
- › Nieuw luchthavenverkeersbesluit Schiphol en luchthavenbesluit Rotterdam – positie GA
- › GA op de slotgealloceerde luchthavens (Schiphol, Rotterdam, Eindhoven, toekomstig Lelystad)
- › Verduurzaming GA en vervanger van loodhoudende brandstoffen
- › Steeds grotere behoefte vanuit onbemand voor vliegen middels beyond visual line of sight (BVLOS)
- › U-Space en elektronische zichtbaarheid (E-conspicuity)
- › Verhoging vliegbelasting voor passagiers zakelijke GA

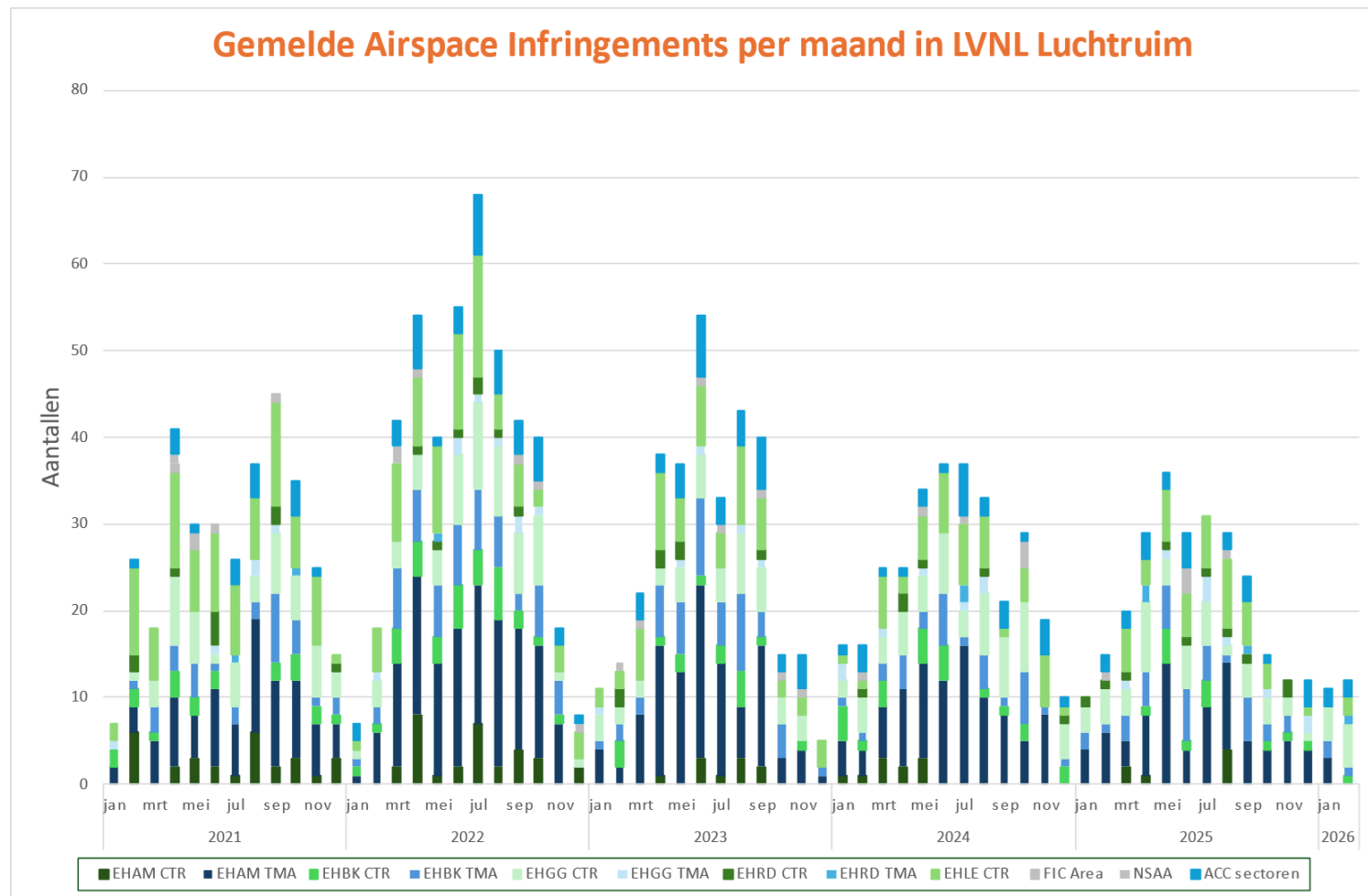


# Voortgang programma Luchtruimherziening

- Inhoudelijke appreciatie van het adviesrapport van de Adviescommissie 'uitvoering programma Luchtruimherziening' - **eind Q1 2026 naar Tweede Kamer;**
- Advies wordt betrokken bij de uitwerking in het Voorlopig Ontwerp; ook worden onafhankelijke effectanalyses uitgevoerd naar de milieu-effecten (geluid, CO<sub>2</sub>, stikstof).
- Voorstel voor besluitvorming samen met dit pakket naar Tweede Kamer - **tweede helft van 2026.**
- Daarna volgt meerjarige voorbereidingsfase van de implementatie. Dit omvat o.a. validatie, toetsing door ILT/MLA, training verkeersleiders en invoering in de systemen.



# Aantal luchtruimschendingen omlaag

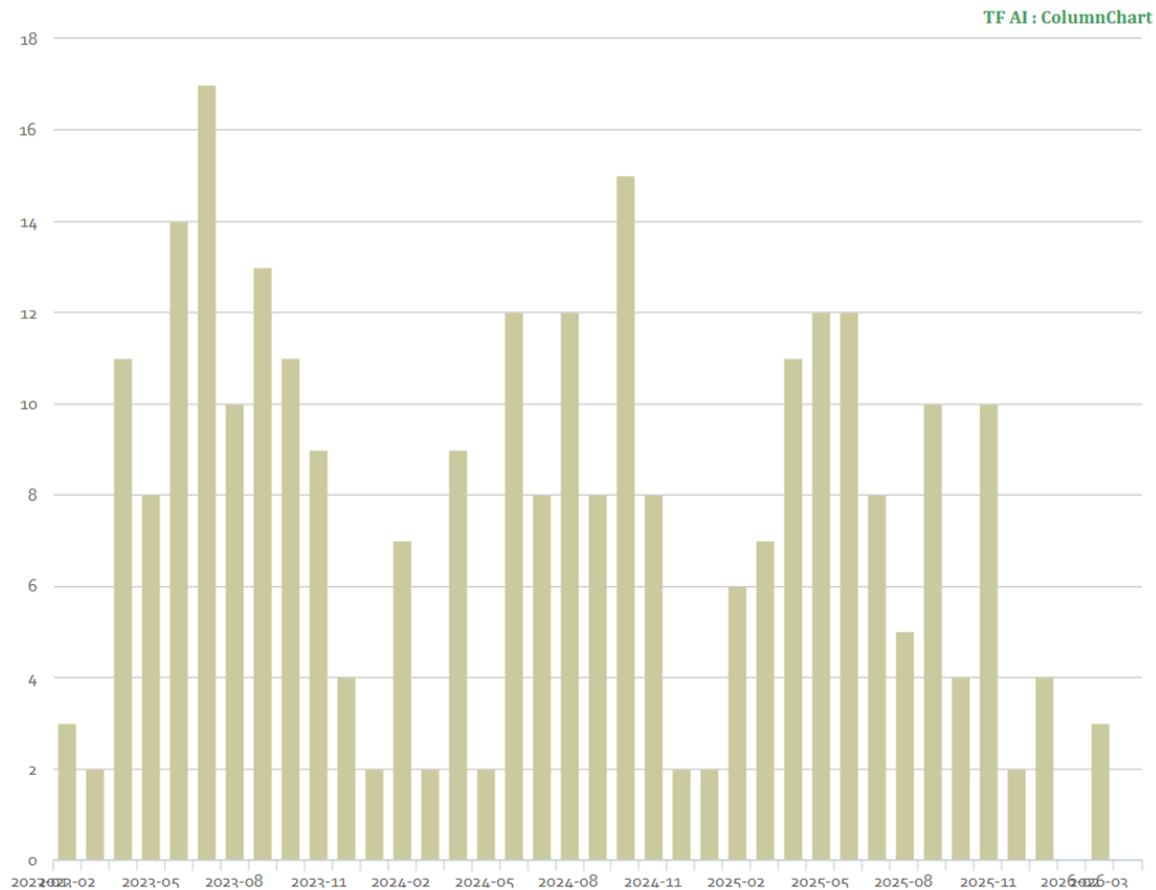


> Het aantal gemelde Airspace Infringements voor 2025 zit onder het niveau van de voorgaande jaren

> 2023: 320  
2024: 296  
2025: 257



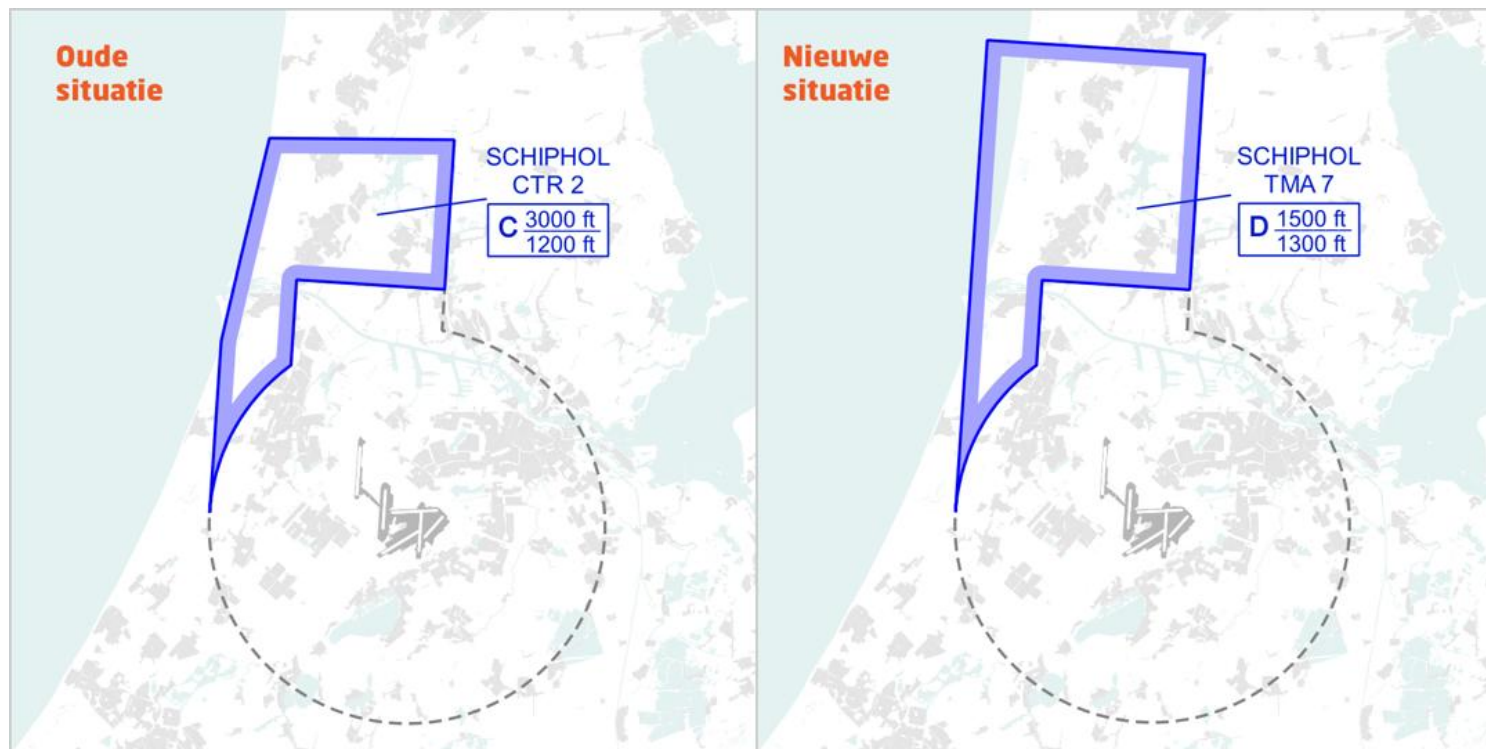
# Aantal luchtruimschendingen omlaag



- > Gemelde Airspace Infringements per maand in MilATCC luchtruim
- > Blijf luchtruimschendingen melden bij het ABL



# TMA 7 en 8 succesvol



- > Het aantal TCAS RA's sterk afgenomen, van gemiddeld 9 per jaar na nog maar 1 in het jaar sinds invoering maatregel
- > Situatie opnieuw evalueren bij implementatie hoger naderen



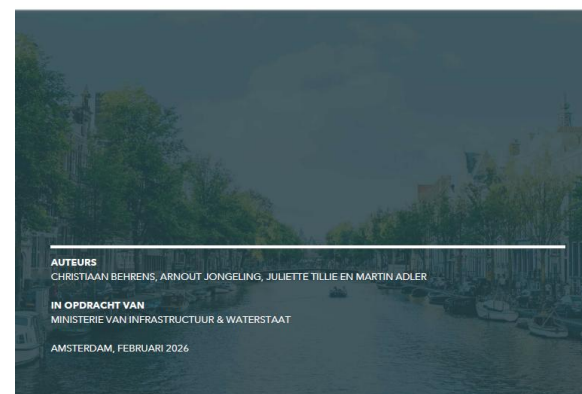
# Economische betekenis van GA in Nederland

- > Onderzoek uit laten voeren door SEO
- > Ruim 7 duizend banen (fte) en bijna 1 miljard toegevoegde waarde verbonden aan GA

ECONOMISCHE  
VOETAFDRIJK GENERAL  
AVIATION

RAPPORT

**seo** • economisch onderzoek



**AUTEURS**  
CHRISTIAAN BEHRENS, ARNOUT JONGELING, JULIETTE TILLIE EN MARTIN ADLER

**IN OPDRACHT VAN**  
MINISTERIE VAN INFRASTRUCTUUR & WATERSTAAT

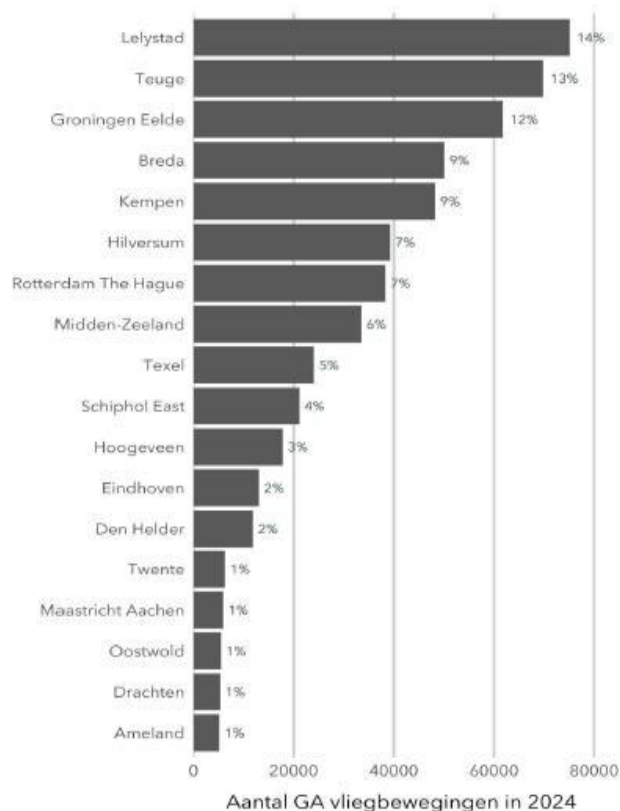
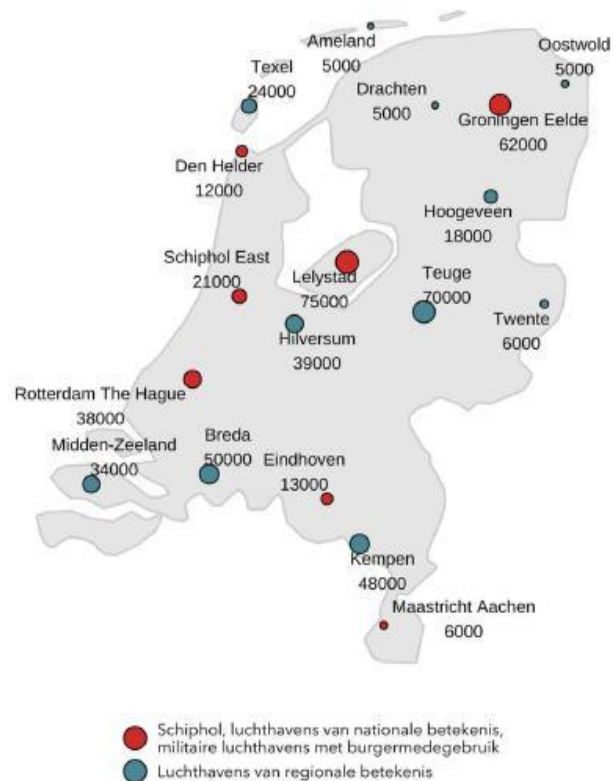
AMSTERDAM, FEBRUARI 2026

Economische betekenis GA-sector in 2024		
Type impact	Toegevoegde waarde	Werkgelegenheid
Direct (op luchthaven-terreinen en daarbuiten)	€ 480 mln.	3.000 fte
Indirect	€ 270 mln.	2.600 fte
Afgeleid	€ 210 mln.	1.700 fte
<b>Totaal</b>	<b>€ 960 mln.</b>	<b>7.300 fte</b>

Bron: SEO Economisch Onderzoek op basis van economische impactanalyse



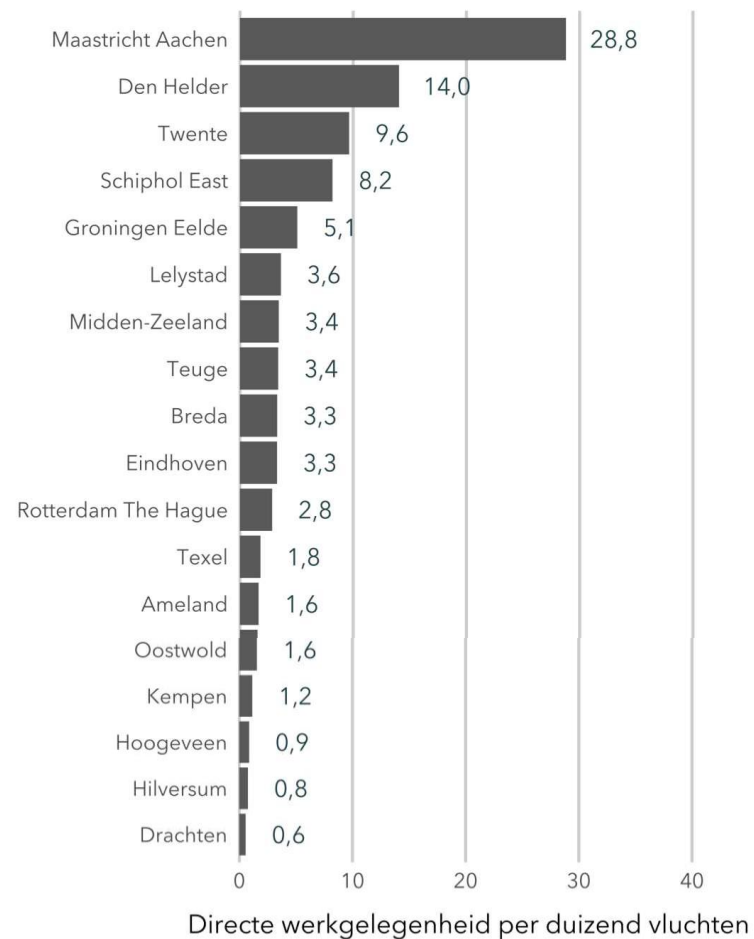
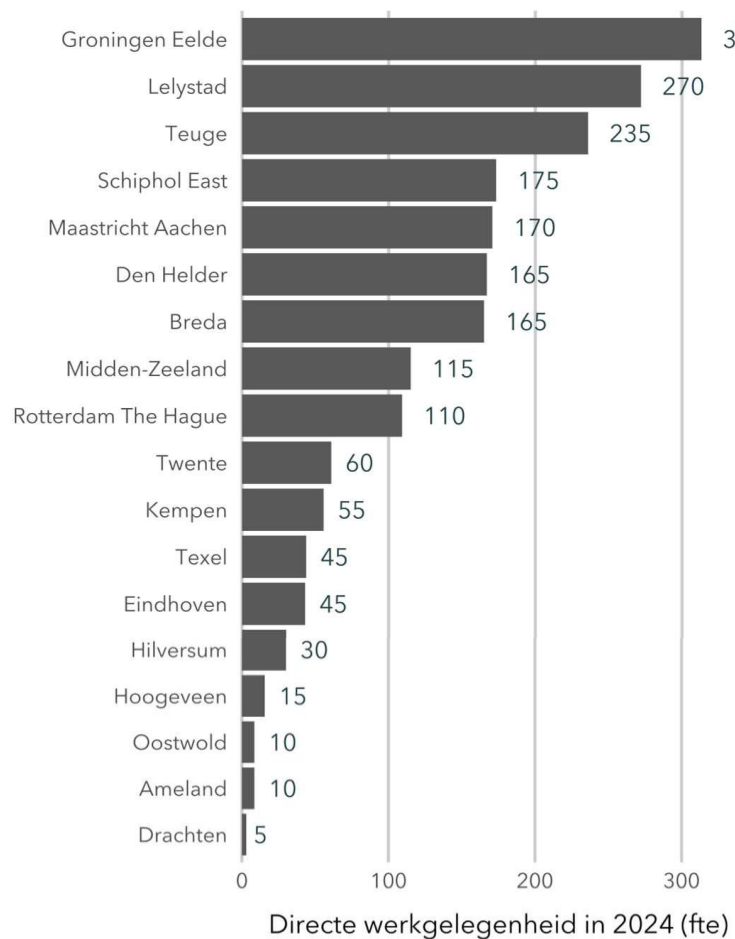
# Verdeling GA in Nederland



60 procent op de luchthavens van regionale betekenis, 40 procent op luchthavens van nationale betekenis



# Werkgelegenheid op de velden





## Diverse sector

- > Verscheidenheid aan luchtruimgebruikers vallen onder de paraplu GA, met grote verschillen in onderlinge operaties en type toestellen
- > Veelzijdigheid van de sector zorgt voor een gebrek aan centrale organisatie



# Zelfde toestel, verschillend doel





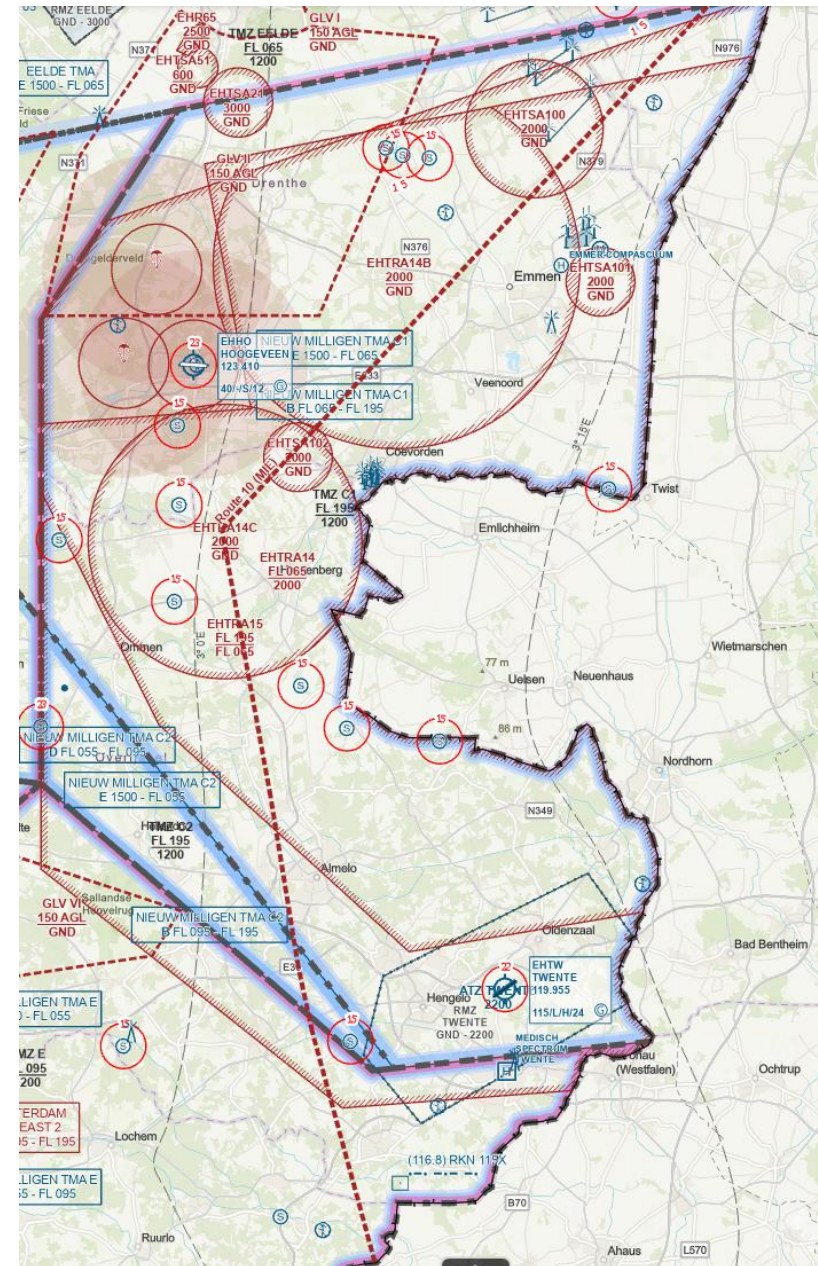
# OVV rapport bijna botsing Tecnam en F-16

- > Rapport in oktober 2025 gepubliceerd
- > Vraagt aandacht voor grote snelheidsverschil tussen GA verkeer en straaljagers
- > *"Het Commando Lucht- en Ruimtestrijdkrachten (CLRS) en het ministerie van IenW zullen gezamenlijk een risico-assessment doorlopen waarin mogelijke risico's van het operationele gebruik van militaire hogesnelheidsvliegtuigen in het Nederlandse luchtruim - in relatie tot de veilige scheiding tussen militair en burger luchtverkeer, inclusief de general aviation - worden bekeken. Vervolgens worden, indien het risicoprofiel daartoe aanleiding geeft, mitigerende maatregelen genomen om het risico te verlagen."*





# Indicaties op de kaart





# Vliegen in klasse E luchtruim

	IFR	VFR
<b>Service provided</b>	Air traffic control service; VFR traffic information (as far as practical).	Traffic information (as far as practical).
<b>Separation provided</b>	IFR from IFR	Not provided
<b>VMC minima</b>	Not applicable	<b>At and above FL 100</b> 8 km visibility; 1500 m horizontal and 300 m (1000 ft) vertical distance from cloud.  <b>Below FL 100</b> 5 km visibility; 1500 m horizontal and 300 m (1000 ft) vertical distance from cloud.
<b>Speed limitation</b>	250 KIAS <sup>1)</sup> below FL 100	250 KIAS <sup>1)</sup> below FL 100
<b>Radio communication capability requirement</b>	Yes	No <sup>2)</sup>
<b>Continuous two-way air-ground voice communication required</b>	Yes	No <sup>2)</sup>
<b>Flight plan required</b>	Yes	No
<b>Subject to an ATC clearance</b>	Yes	No

<sup>1)</sup> The speed limitation is not applicable to military jet fighters with a minimum air speed of 250 KIAS, provided that the flight visibility is more than 8 km (CTRs exempted).

<sup>2)</sup> Pilots shall maintain continuous air-ground voice communication watch and establish two-way communication, as necessary, on the appropriate communication channel in RMZ.

- > In luchtruimklasse E geldt het principe van *see and avoid*
- > Ontheffing militaire jachtvliegtuigen voor 250 knopen maximale vliegsnelheid
- > Er geldt beneden de 3.000 voet hoogte wel een maximale snelheid van 450 knopen voor militaire jachtvliegtuigen
- > Hou rekening met IFR vlieghoogtes bij het uitvoeren van VFR oefeningen in klasse E luchtruim (incident was op 3000 voet)



## Bewustzijn omhoog

- › Hou in uw vluchtvoorbereiding rekening met gebieden en type luchtruim waar militaire activiteiten kunnen plaatsvinden
- › Straaljagerverkeer maakt ook gebruik van militaire luchthavens anders dan Volkel en Leeuwarden
- › F-35 missies zijn hoger, minder noodzaak tot vliegen in het lagere luchtruim.
- › NAVO luchtmachten maken ook gebruik van NL luchtruim
- › Hou rekening met grotere hoeveelheid straaljagerverkeer in de dagen voor en na grote oefeningen (Frisian Flag/Ramstein Flag)
- › Nieuwe routes F-35 voor Lelystad



Vragen?

75 years BIA

Our journey  
to the 100th  
anniversary

Jan Voeten & Max Boogaers



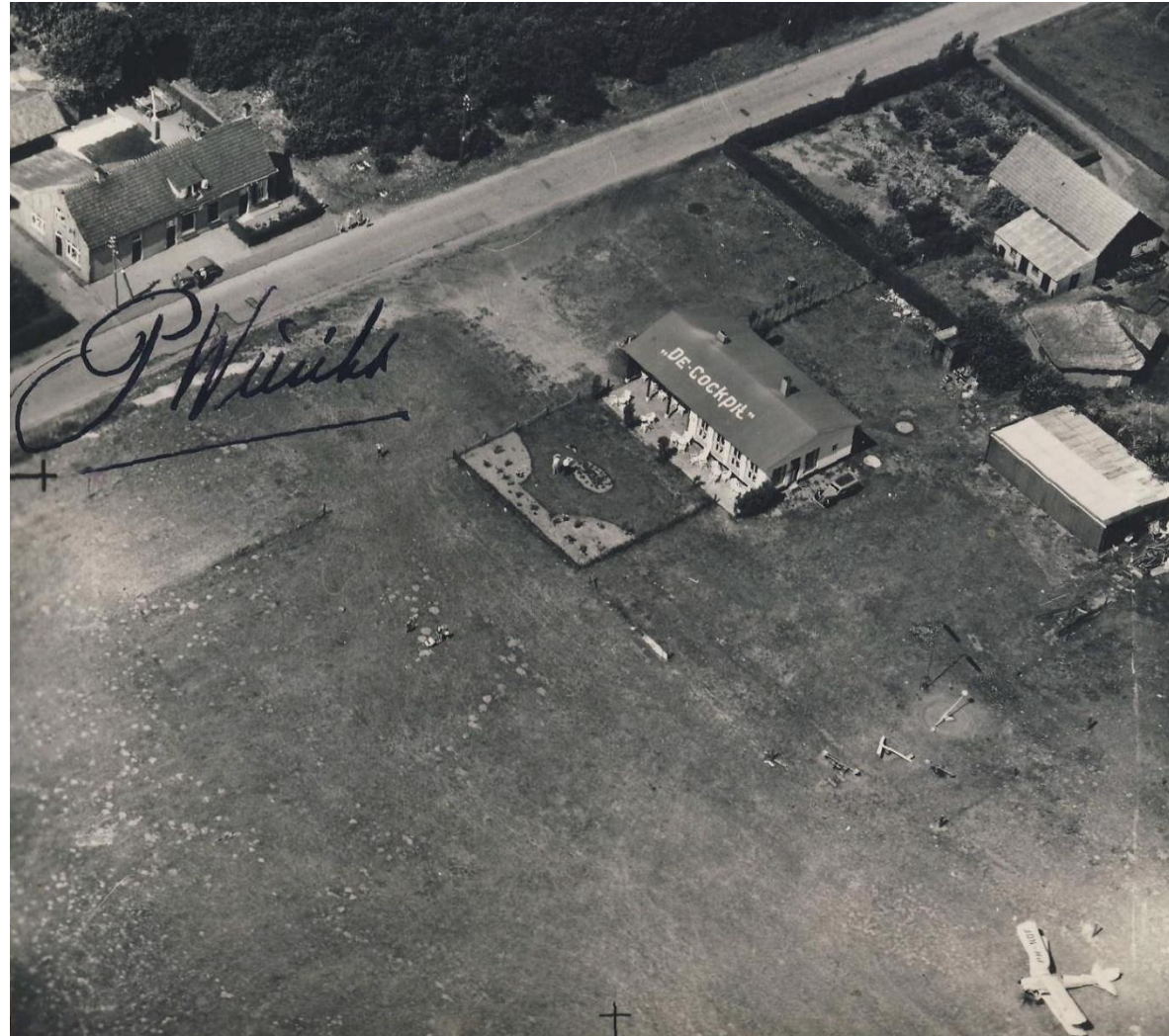


**29 augustus 1949**





19??





**20 juli 1952**





**juli – augustus 1952**





# Positioning EHSE

- Third GA-airfield in movements
- Second GA-airfield in flight training movements

	<b>EHLE</b>	<b>EHTE</b>	<b>EHSE</b>	<b>EHBD</b>	<b>EHHV</b>
2024 total	75.112	69.831	50.098	48.201	39.249
2024 training fl.	46.094	33.931	35.276	26.334	19.729
2025 total	81.766	68.924	55.863	45.405	39.210
2025 training fl.	44.415	38.224	40.888	27.745	17.761

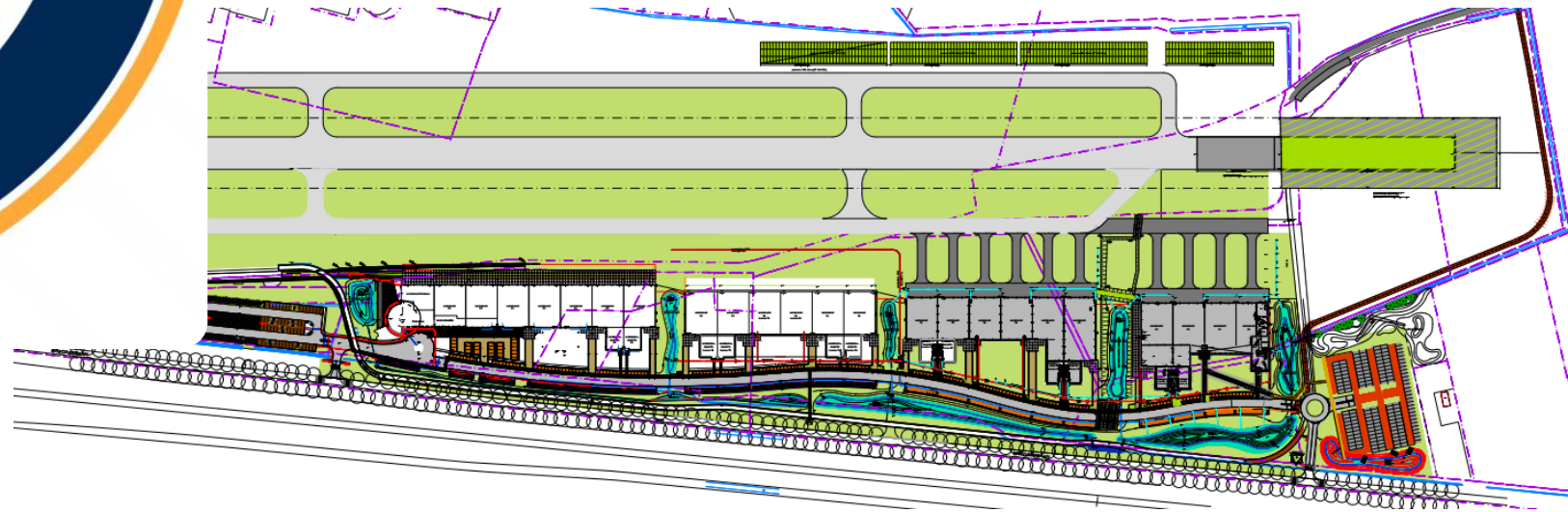


# Positioning EHSE

Breda-Seppe is:

- A Point of Entry for Extra Schengen traffic: Passport Control by Royal Military Police
- A Transit Port for goods to and from countries outside EU: Customs & Excise

# Positioning EHSE



We are proud member of





# BIA's role in the national mobility system

- Present Position: vulnerable/ cyclically sensitive;
- Objective: more stable position, innovative and sustainable approach;
- Priority Target Group: economical triangle Breda/Tilburg-Rotterdam-Antwerp
- Intended Result: reliable, sustainable and efficient connectivity within Europe

# The World Around Us

## Interaction with Surrounding Airports:

REGULATIONS AND GOVERNMENT

### Amsterdam Schiphol Airport Plans To Ban Business Aircraft in 2025

1 januari 2026

Amsterdam Schiphol Airport is proposing a ban on business aircraft starting in 2025 as part of a wider strategy to reduce noise and CO2 emissions.

Met ingang van 1 januari 2026 biedt Eindhoven Airport N.V. deze services niet meer aan. Klik hier meer informatie.

[www.eindhovenairport.nl](http://www.eindhovenairport.nl)

General Aviation & Business Aviation - Eindhoven Airport

### Defensie koopt Kempen Airport, vlak over provinciegrens bij Weert

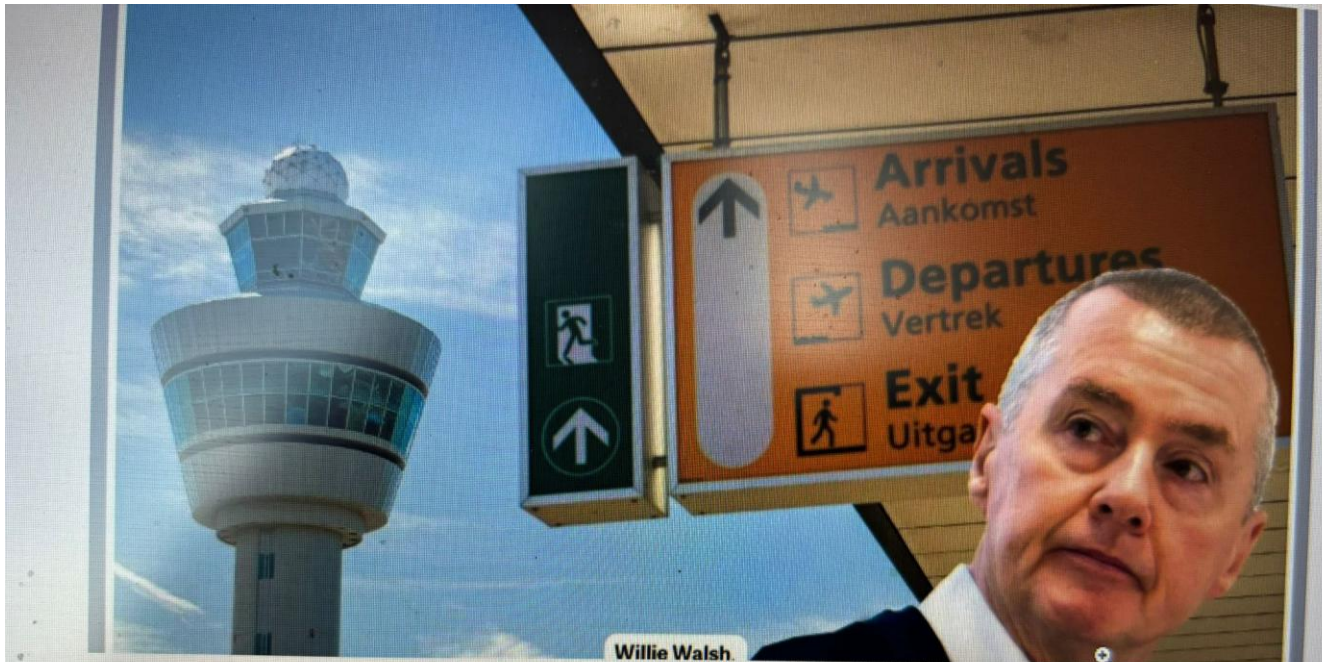
## Lelystad Airport wordt derde Nederlandse F-35A-basis

Is er een toekomst voor Rotterdam The Hague Airport?

Rotterdam The Hague Airport krijgt steeds meer kritiek.

Donkerrode cijfers, subsidietwisten en een alarmerend zinnetje: hoe moet het verder met de luchthaven van Deurne?

# The World Around Us



**IATA-baas: 'Nederland het grootste anti-luchtvaartland in Europa'**



**'Hogesnelheidslijn ten zuiden van Schiphol bijna drie maanden dicht voor renovatie'**

**Storing in Kanaaltunnel verholpen: Eurostar naar Londen rijdt vandaag weer**

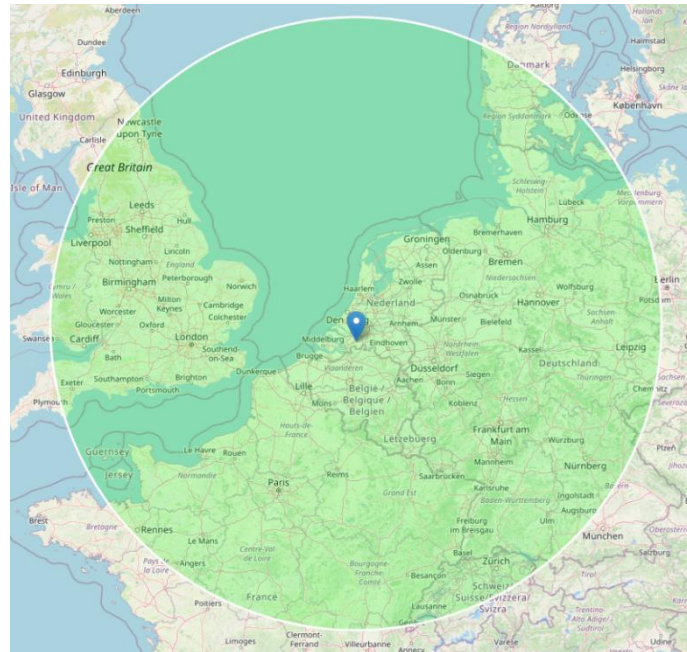
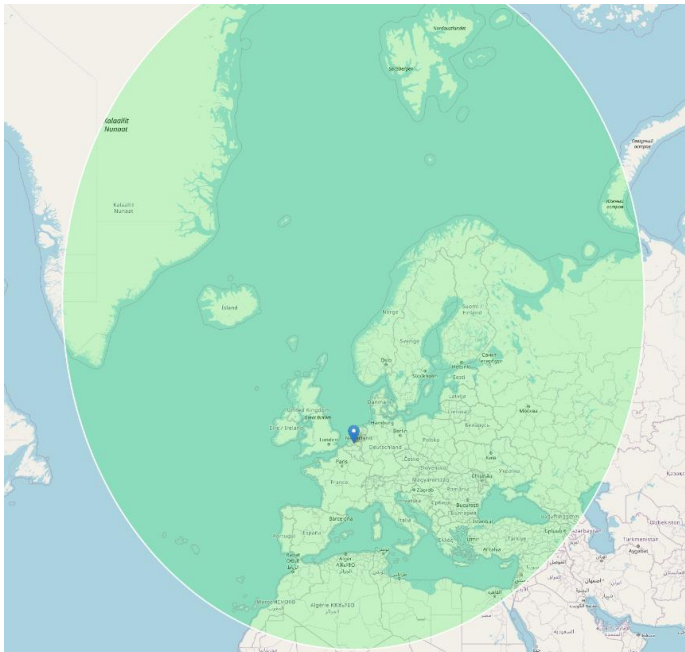


# Development Scenarios: 2030 - 2049

- 2025-2030: voorbereiding
- 2030-2049: gefaseerde ontwikkeling
- Assumptions and Starting Points:
  - New Market Segments;
  - Complementary to Airports of National Importance;
  - Stronger Role in the Region.

# New Market Segments

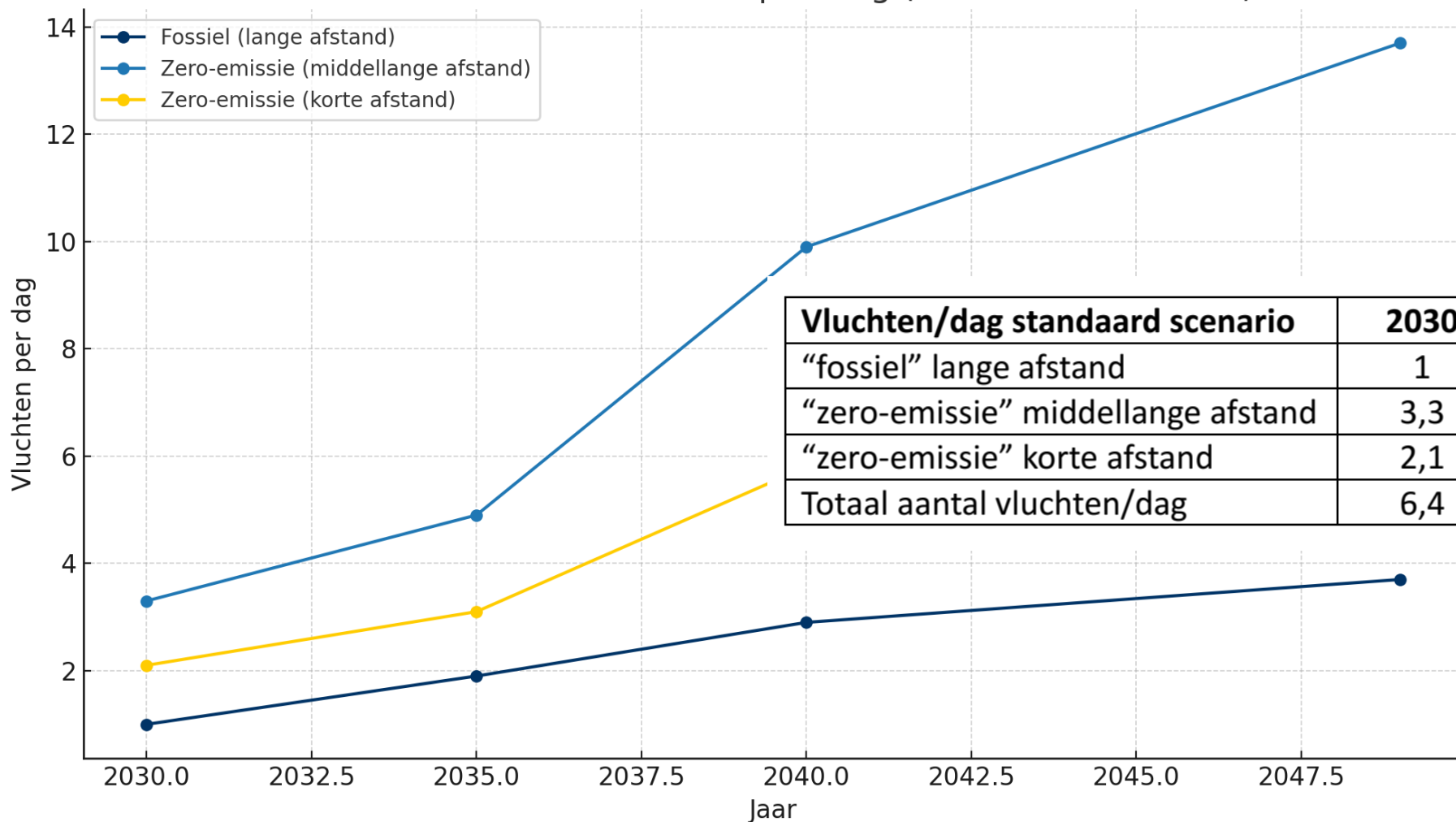
- Business Flights (Fossil) → non-stop to the edges of Europe
- Medium Range Zero-Emission Flights: 400 → 600 km range
- Regional/Urban Zero-Emission Flights e-VTOLs: 100 → 150k urban/regional
- Freight Operations (Fossil and Zero-Emission)





# Forecast per Segment

Gemiddeld Aantal Vluchten per Dag (Standaard Scenario)



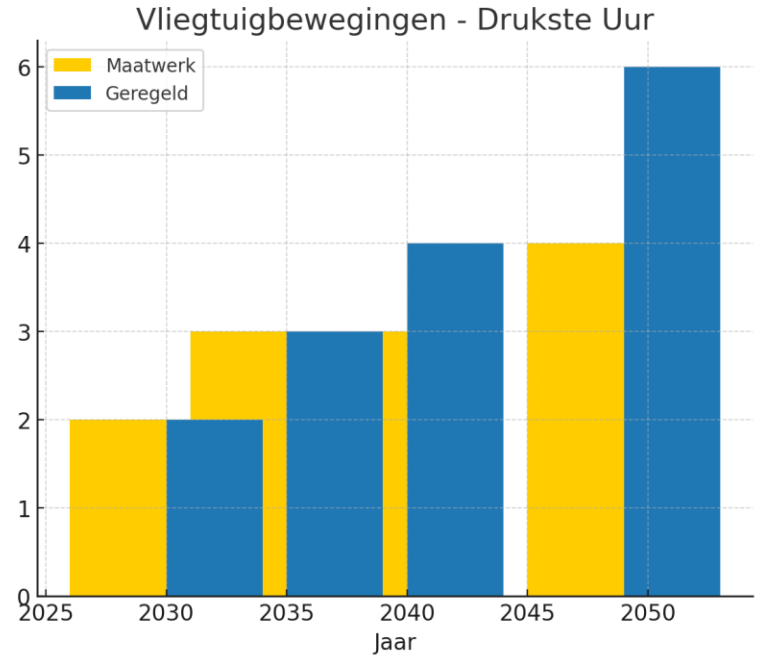
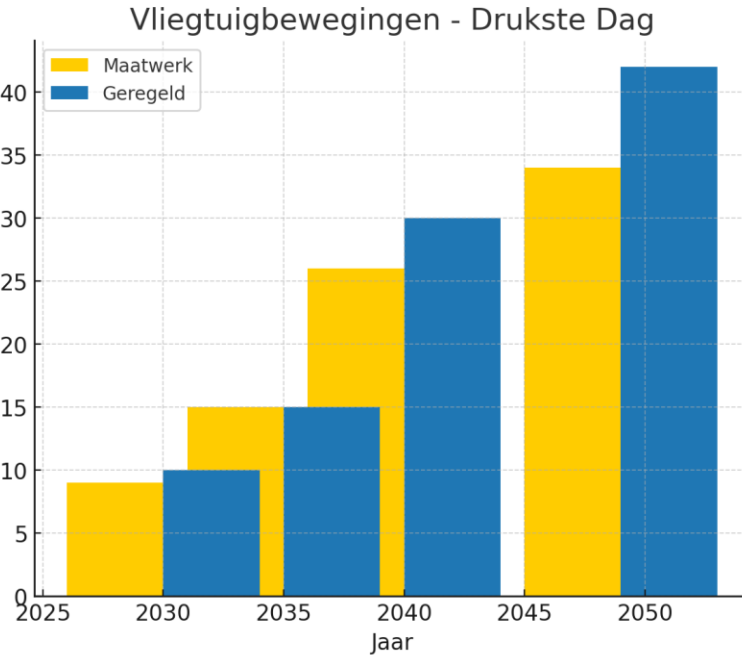
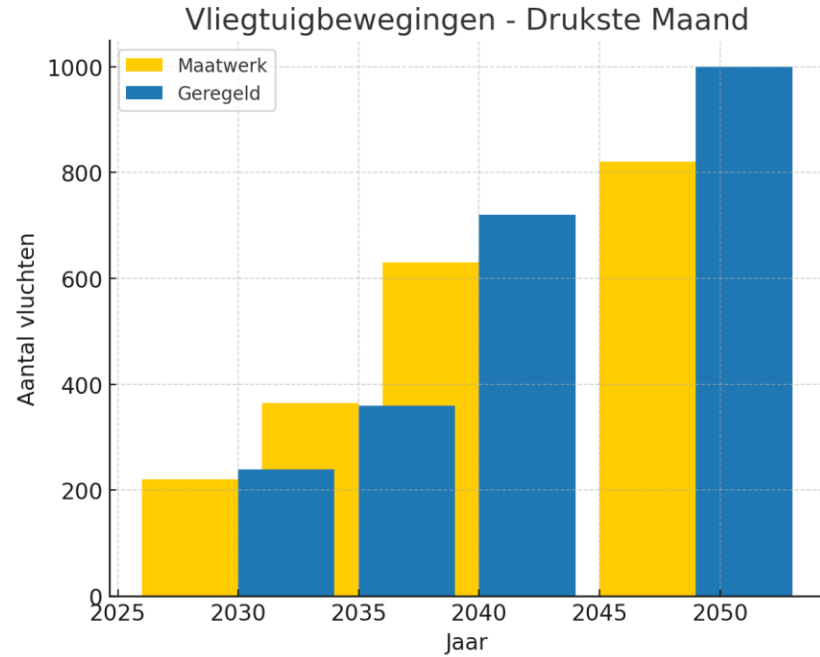
Vluchten/dag standaard scenario	2030	2035	2040	2049
“fossiel” lange afstand	1	1,9	2,9	3,7
“zero-emissie” middellange afstand	3,3	4,9	9,9	13,7
“zero-emissie” korte afstand	2,1	3,1	5,8	7,5
Totaal aantal vluchten/dag	6,4	9,9	18,6	24,9



# Capacity Planning

- Aircraft Movements

Capaciteitsbehoefte tijdens Piekmomenten (Maand, Dag, Uur)

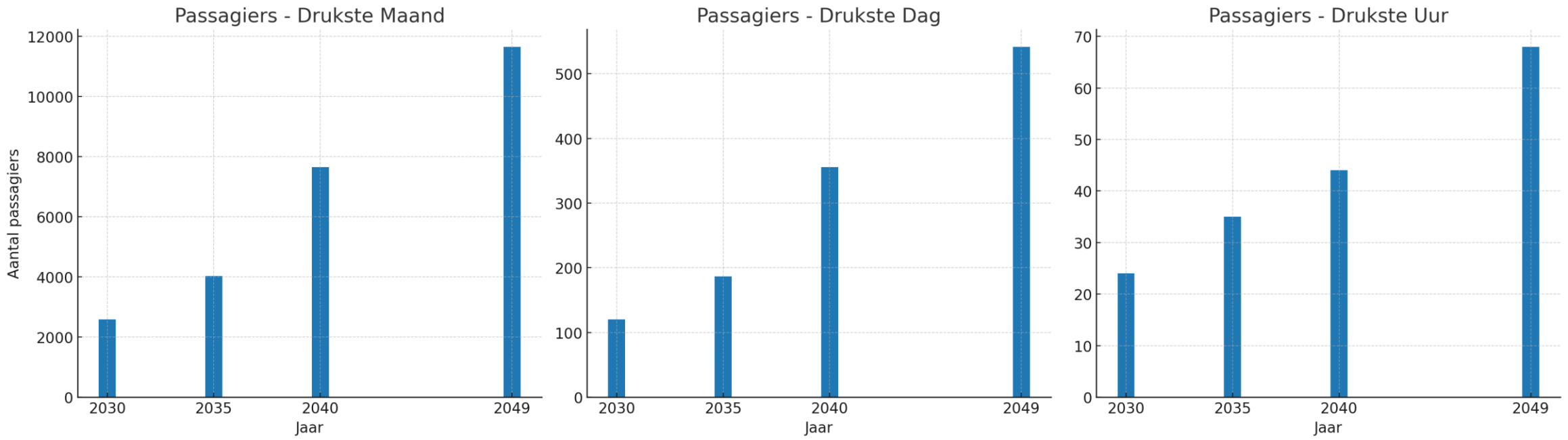




# Capacity Planning

- No capacity problems foreseen

Passagiersbewegingen tijdens Piekmomenten (Maand, Dag, Uur)





# Unique Selling Point

**Balance in all processes  
and ....**

- **max 20 minutes between parking your car and taxiing out for take-off.**
- **Max 20 minutes between landing and leaving the airport.**



# Design Aircraft

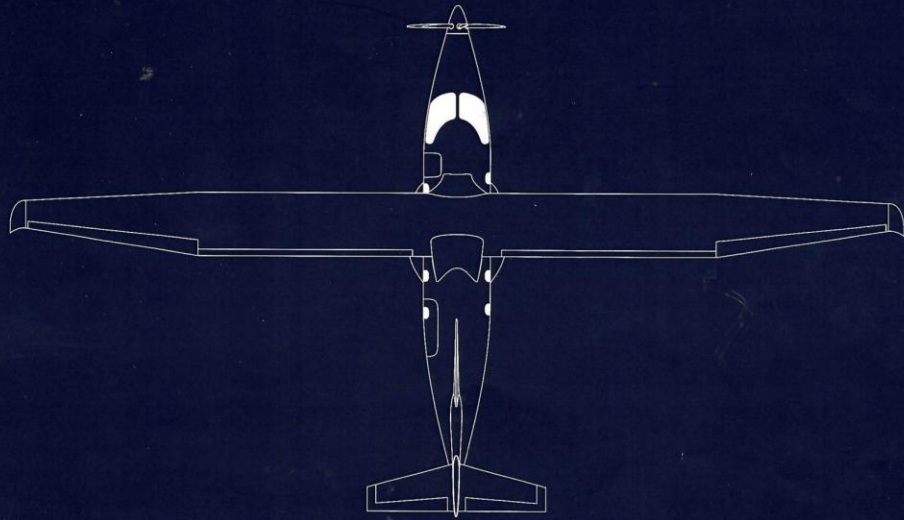


**Pilatus PC-12: non-stop edges of Europe**

# Design Aircraft



**Pilatus PC-24: non-stop edges of Europe**



**Dimensions & Weights**

Wingspan	23.99 m / 78.7 ft
Length	13.56 m / 44.5 ft
Height (to static ground)	4.60 m / 15.1 ft
Seating Capacity	9 PAX + 2 pilots*
MTOW	5,700 kg
Payload	up to 1,000 kg**
Cabin Height	146 cm / 57.5"
Cabin Width	162 cm / 63.8"
Cabin Width (Floor)	127 cm / 50"

\*aircraft capable of single-pilot operations \*\* incl. pilots

**Performance Data**

Range	400 km (~215NM)
(at full payload)	+ commercial IFR reserves
Max Operating Altitude	20,000 ft
Take-Off Distance (SL, ISA+0, paved)	800 m / 2,625 ft
Take-Off Distance (SL, ISA+0, grass)	1,000 m / 3,281 ft
Typical Charging Time	< 40 min
Peak Charging Power	up to 800 kW
Maximum Cruise Speed	190 KEAS

# Design Aircraft



## Vaeridion - zero emission - Germany

- 2030: 400 km range
- 2035: 500 km range
- 2040: 600 km range





# Design Aircraft

## MDA1 Germany



2029



- SOP (Start Of Production)

2027



- Testing
- Certifications
- Authorisation

2026



- Flying demonstrator (prototype)
- Customer Presentations Worldwide

2023



- Start preliminary design



The MDA1 has a capacity for up to 10 passengers or 3 IBC containers. A quick conversion from passenger to cargo is possible.

# Design Aircraft



The screenshot displays the AURA AERO website with a navigation menu at the top: AURA AERO, INTEGRAL, ERA, A SUSTAINABLE APPROACH (with a leaf icon), MEDIA, JOIN US, MEMBER AREA, and EN. The main content area features a large image of the AURA AERO aircraft in flight, with a specifications table overlaid at the bottom.

MTOW	8.6 T	HYBRID CRUISE SPEED	250 KTAS
PAYLOAD PASSENGER	19 pax / 1.710 KG	STOL CAPABILITY	800 M
PAYLOAD CARGO	1.900 KG / 21.5 M3	STAND-UP, PRESSURIZED CABIN	
RANGE @max take-off weight	900 NM	DIRECT OPERATING COST	< .10 €/ASK
RANGE @max payload	200 NM		

**AURA-Aero: hybrid – 19 pax - France**



# Design Aircraft

## ALIA VTOL

Vertical takeoff & landing  
all-electric aircraft



## ALIA CTOL

Conventional takeoff & landing  
all-electric aircraft



<b>\$28 per hour</b> ALIA VTOL energy cost vs. \$311/hr Bell 407	<b>84% less emissions</b> ALIA VTOL vs. Bell 407	<b>\$18 per hour</b> ALIA CTOL energy cost vs. \$347/hr Cessna 208	<b>75% less emissions</b> ALIA CTOL vs. Cessna 208
---	---	---	---

**280 km/u – actieradius 600+ km**

**Beta Technologies – 5 pax - USA**

# Design Aircraft - Freight



**1000 kgs**  
**Non stop**  
**1000 km**

6200 @ 90tb = 1m3  
20.000 @ 50g = 1 tonne

**Cessna C208B Super Cargomaster**



# Design Aircraft



**eVTOL:** Regional and Urban Transport to and from Zero-Emission Breda Airport Hub for Onward Zero-Emission Connection to Europe- mid range distance flights

[Lilium testflight](#)





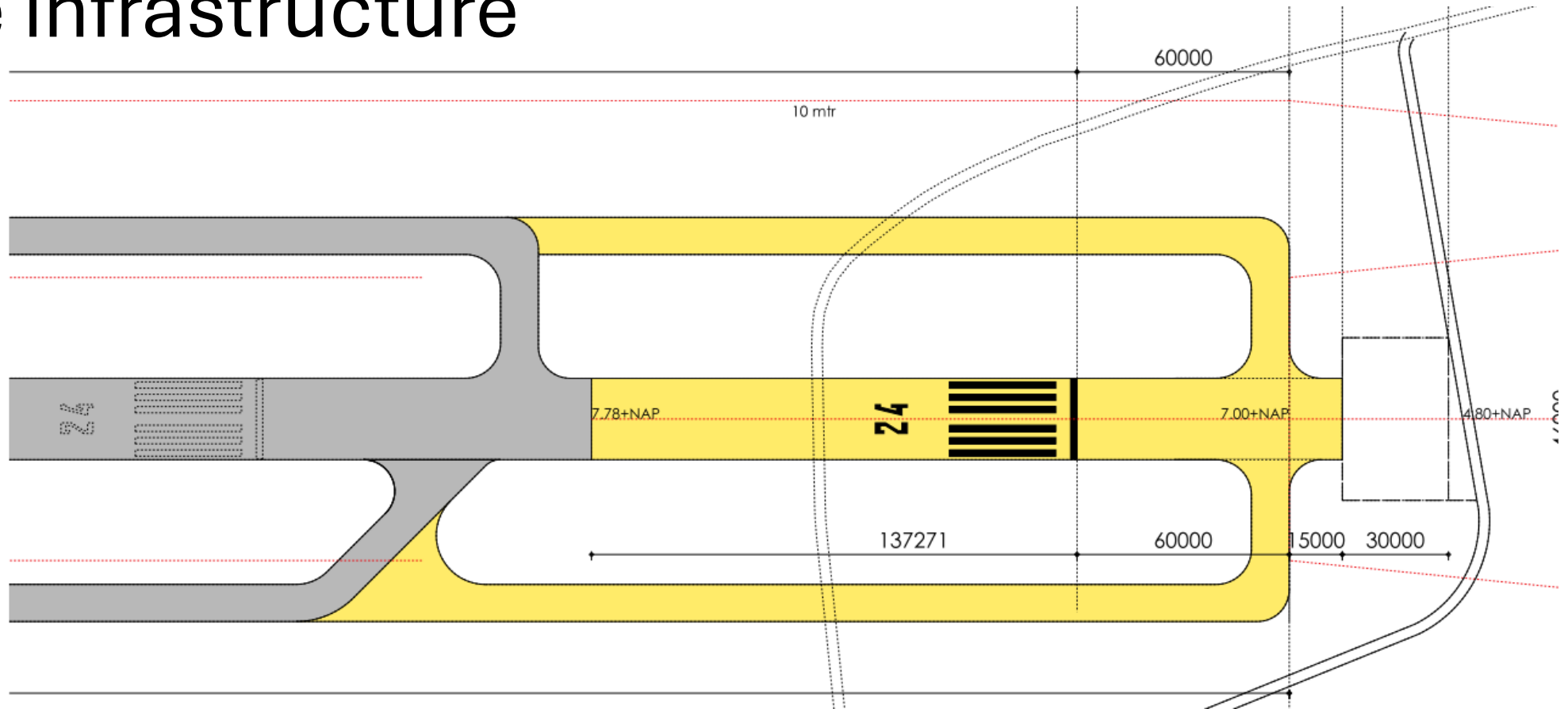
## Preconditions as from 2030

1. Airside Infrastructure and Design Aircraft Operational Capacities: e.g. Runway Length Fits Design Aircraft Operational Demands;
2. Operational Requirement: All Days Are Equal in Length for Aircraft Operations;
3. Reliability and Availability During Marginal/ Adverse Weather Conditions.



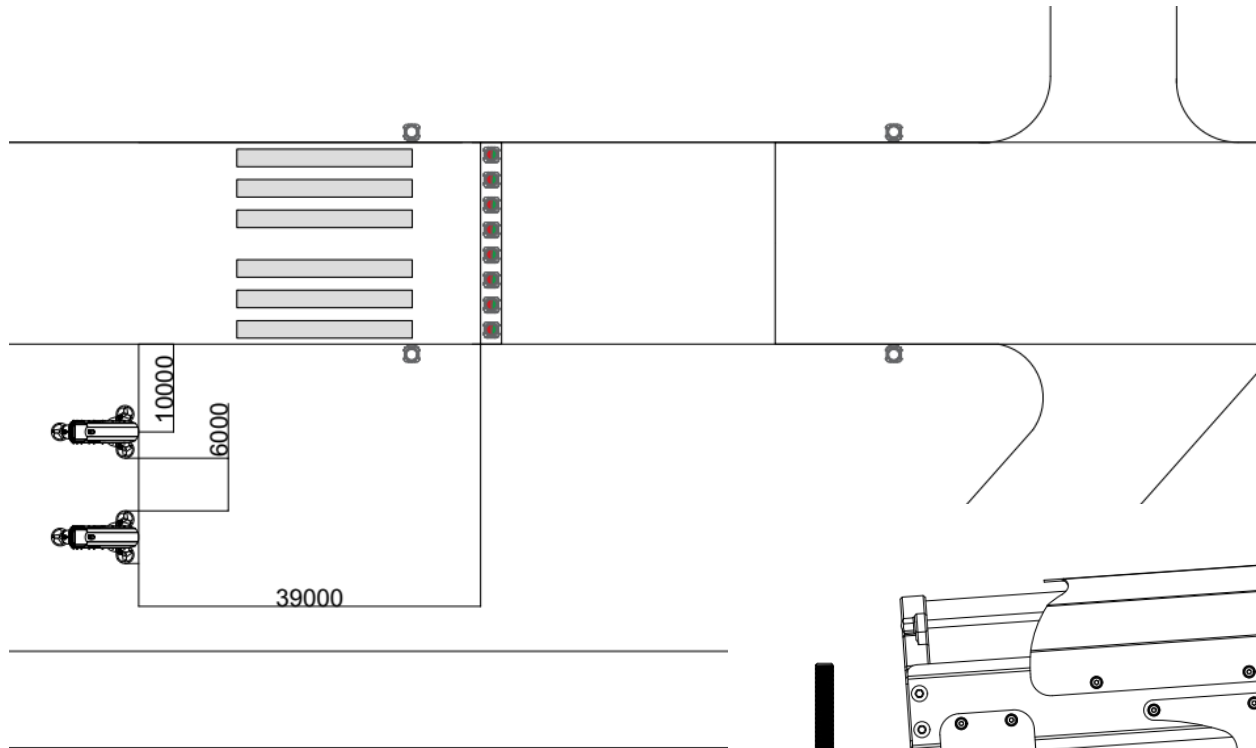
# Meeting Preconditions...

## Design Aircraft match with Airside infrastructure

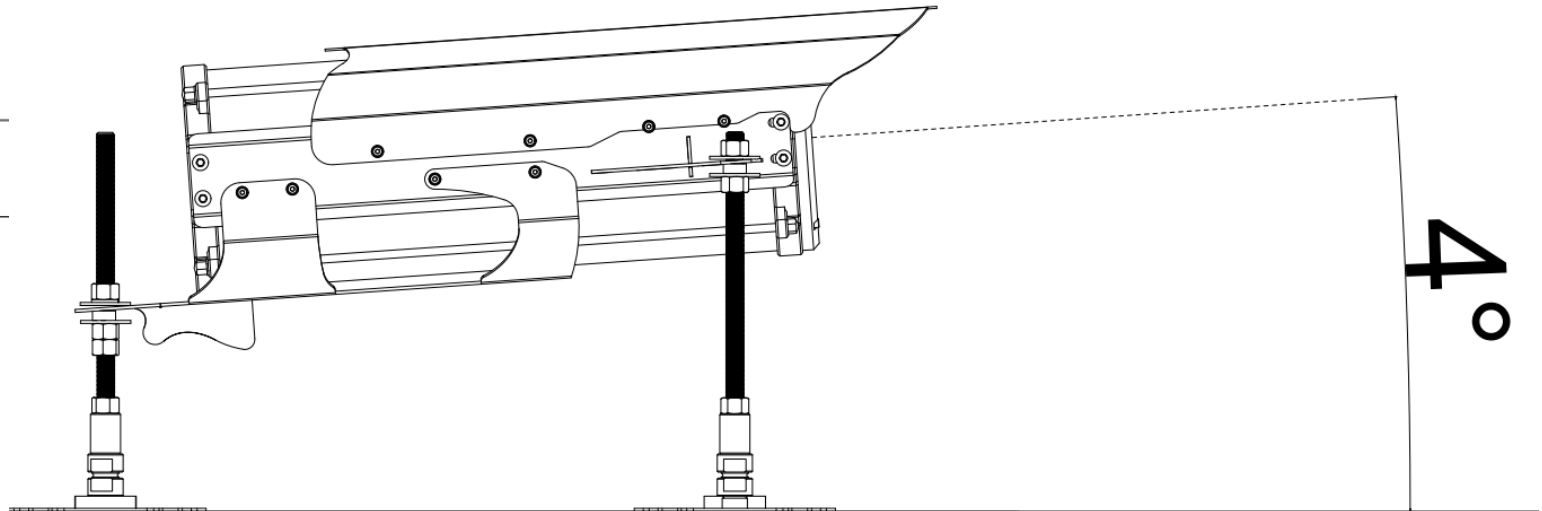




# Meeting Preconditions ...



- PILOT Project;
- All Days Equal in Length;
- **Limited to Winter Periods;**
- 2026: Pilot with APAPI RWY06.



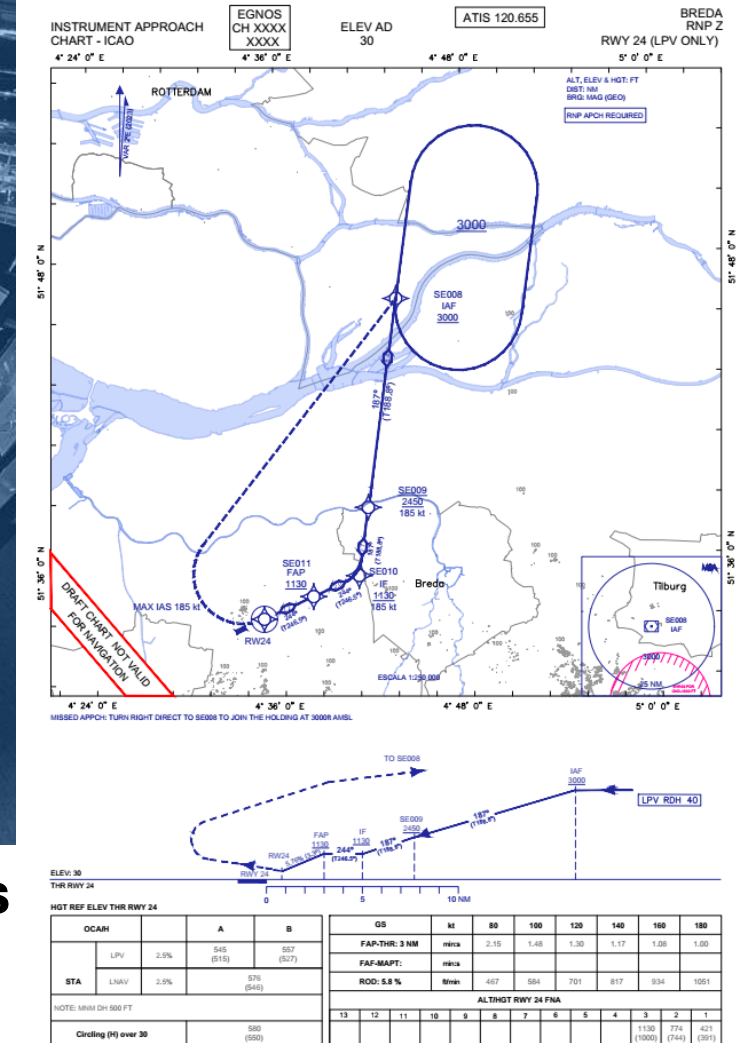
# Meeting Preconditions .....



PvA - Breda Airport

24/07/2025

**PILOT project important for NL and other countries**  
**Phased project with evaluation moments**





# Summary Basic Points

- Forecast realistic/ conservative: to be confirmed by market research
- Market opportunities
- Innovative and Sustainable
- Pionier for Other Airports in and around The Netherlands
- Infrastructural Projects to start preparations: participation processes, building permits, project preparations, construction planning
- Partnership/ Collaboration/ Cooperation with other Airports, Aircraft Manufacturers and Operators.





First outlook  
potential vertiport  
municipal  
infrastructure:  
  
door-to-door zero  
emission  
connectivity

source: EFC Event – 29 October 2025 – NACO/Haskoning



# Next Steps

- Confirmation of traffic forecast by:
  - Market research e-CTOL medium range;
  - Market Research Freight Development.
- Potential development of e-VTOL mobility in the economic region in general and for Breda Airport hub-function in particular (Regional and Urban Air Mobility);
- Definition of the integral Passenger and Freight Handling Process: requirements landside-terminal-airside;
- Phased Airside development, start up Planning Permission Procedure;
- Further detailing Airside Infrastructure:
  - Civil Works Airside;
  - Airfield Lighting concept;
  - Marginal/adverse weather operations, including Airspace considerations.
- Definition of required operational processes: e.g. Fire Cover, Winter Operations;
- Feasibility Study and Business Cases for the various business opportunities;



**Thank you for  
your attention**





Ministerie van Infrastructuur  
en Waterstaat



# WRAP UP

GA Season Opener 2026