



| ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY



Overview of North Atlantic Operations

—
Sean Patrick

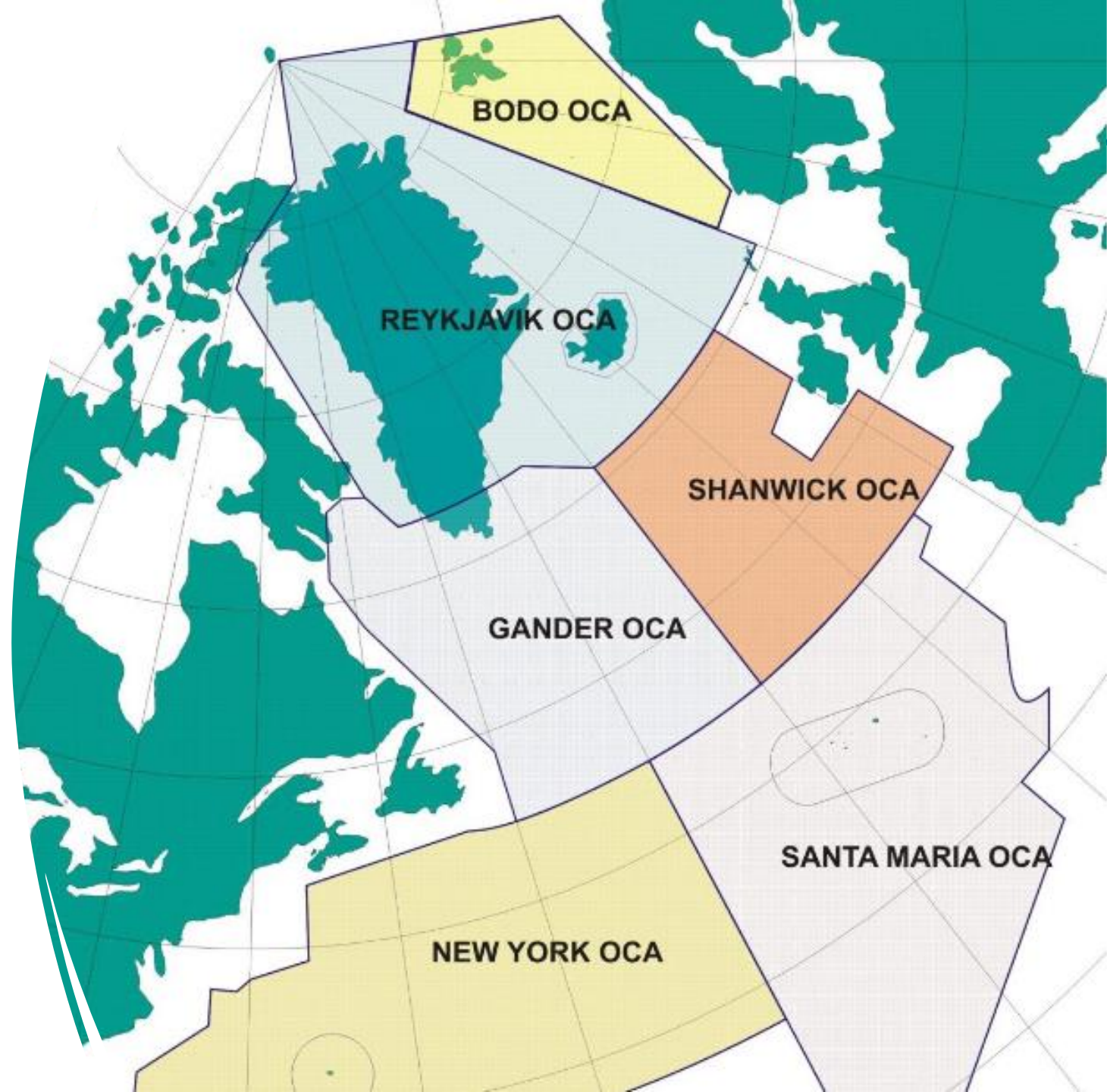
GM Oceanic Services AirNav Ireland

ICAO NAT IMG Chair

Workshop on New Entrants Integration in the NAT
Paris, France, 13-14 May 2024

Who, Where, What ...

- Airspace within the 12-mile limit is sovereign airspace
- Outside 12-mile limit it is High Seas Airspace (international) and delegated through ICAO
- On the North Atlantic there are 9 States concerned
 - USA, Canada, UK, Ireland, France, Portugal, Iceland, Denmark, Norway
- Responsibility for Shanwick region delegated jointly to Ireland and the UK
 - **Shanwick - SHAN**nnon and prest**WICK**



Strategic Importance



520,000+ movements p.a. ...
forecast to grow by up to 3.2%
p.a. based on ICAO forecasts



c.140 million passengers in 2019.
Expected to double by 2040 (IATA)



c.44 billion freight Revenue
Tonne Miles per year



14% of Global Aviation GDP,
and 7% of global aviation jobs.

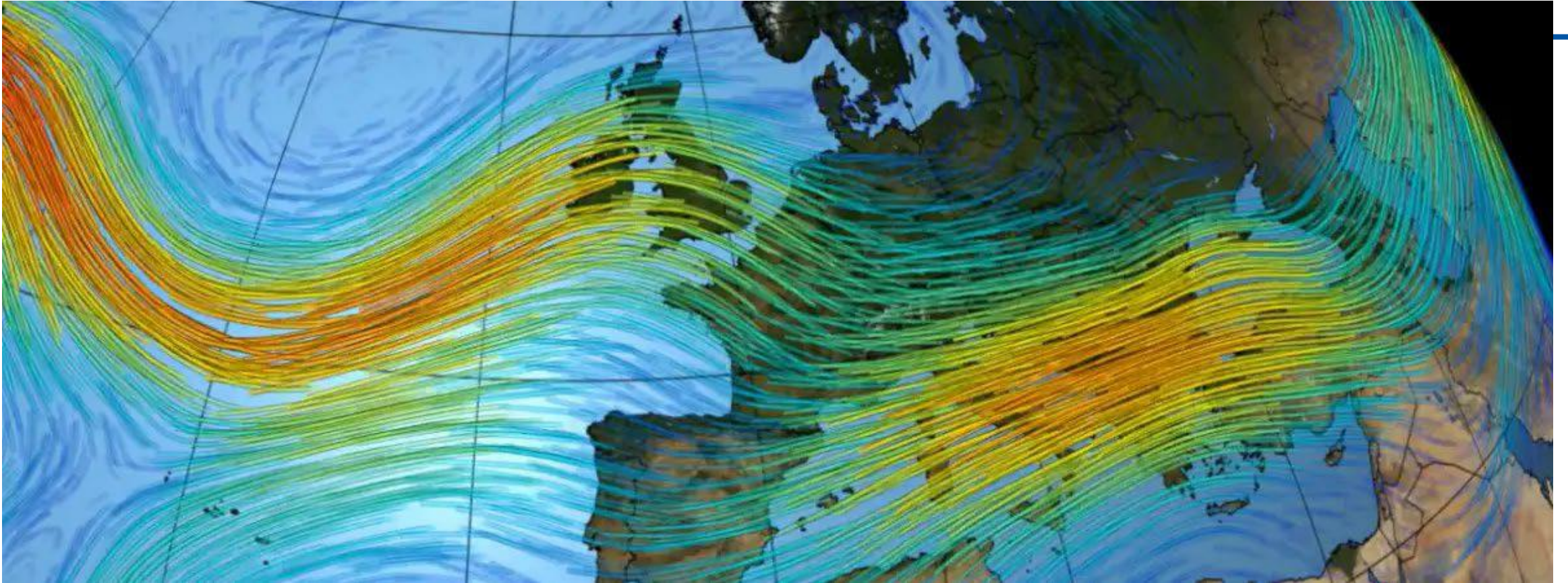


c. £41/€48 /\$71bn* p.a. of total
UK economic impact alone
(passenger, freight, ANSP and
visitor revenue)



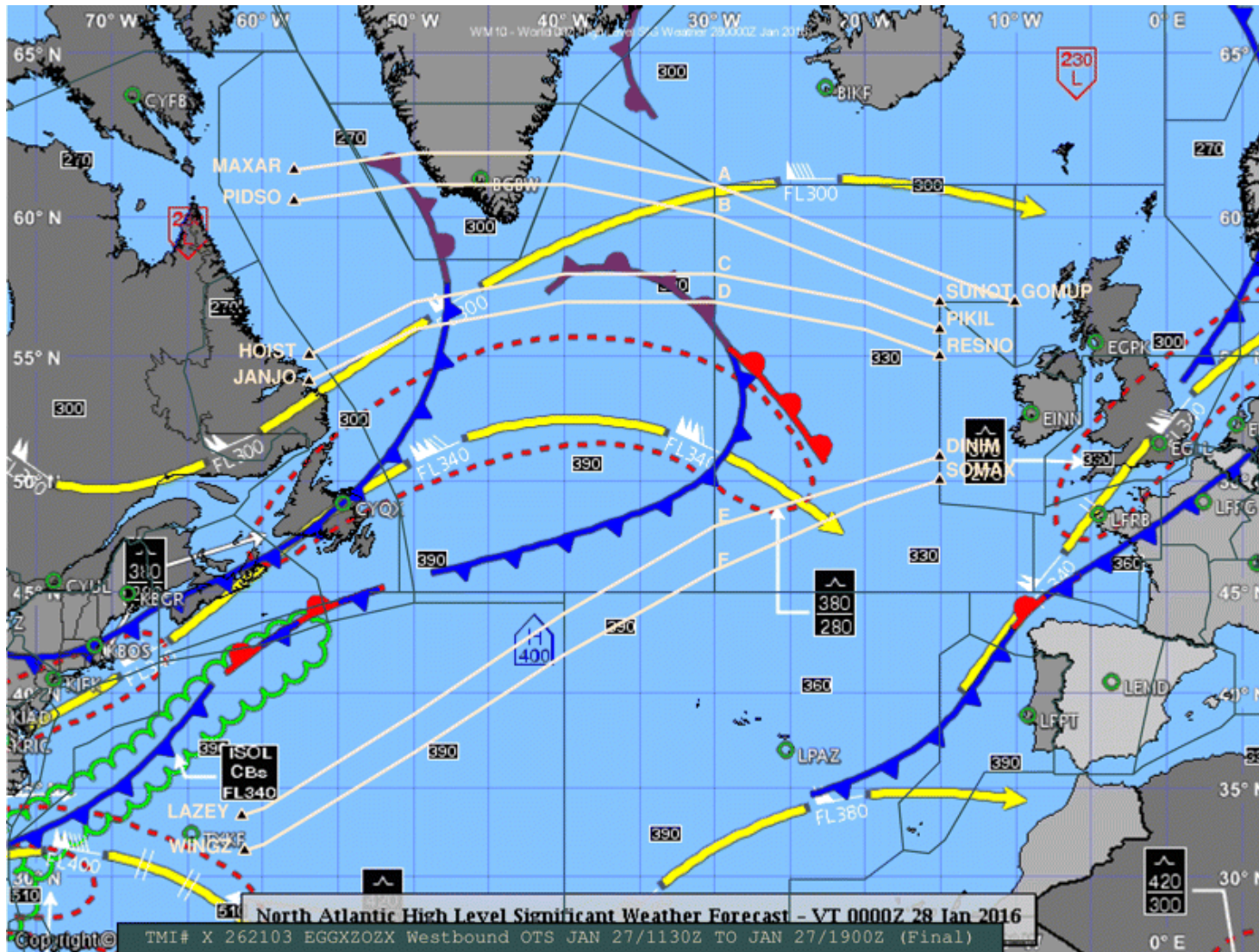
Europe/North America Gateway
providing crucial Network
Manager Offload Routes

The North Atlantic is the world's busiest Oceanic airspace, making a substantial contribution to economies of the member States and ANSPs

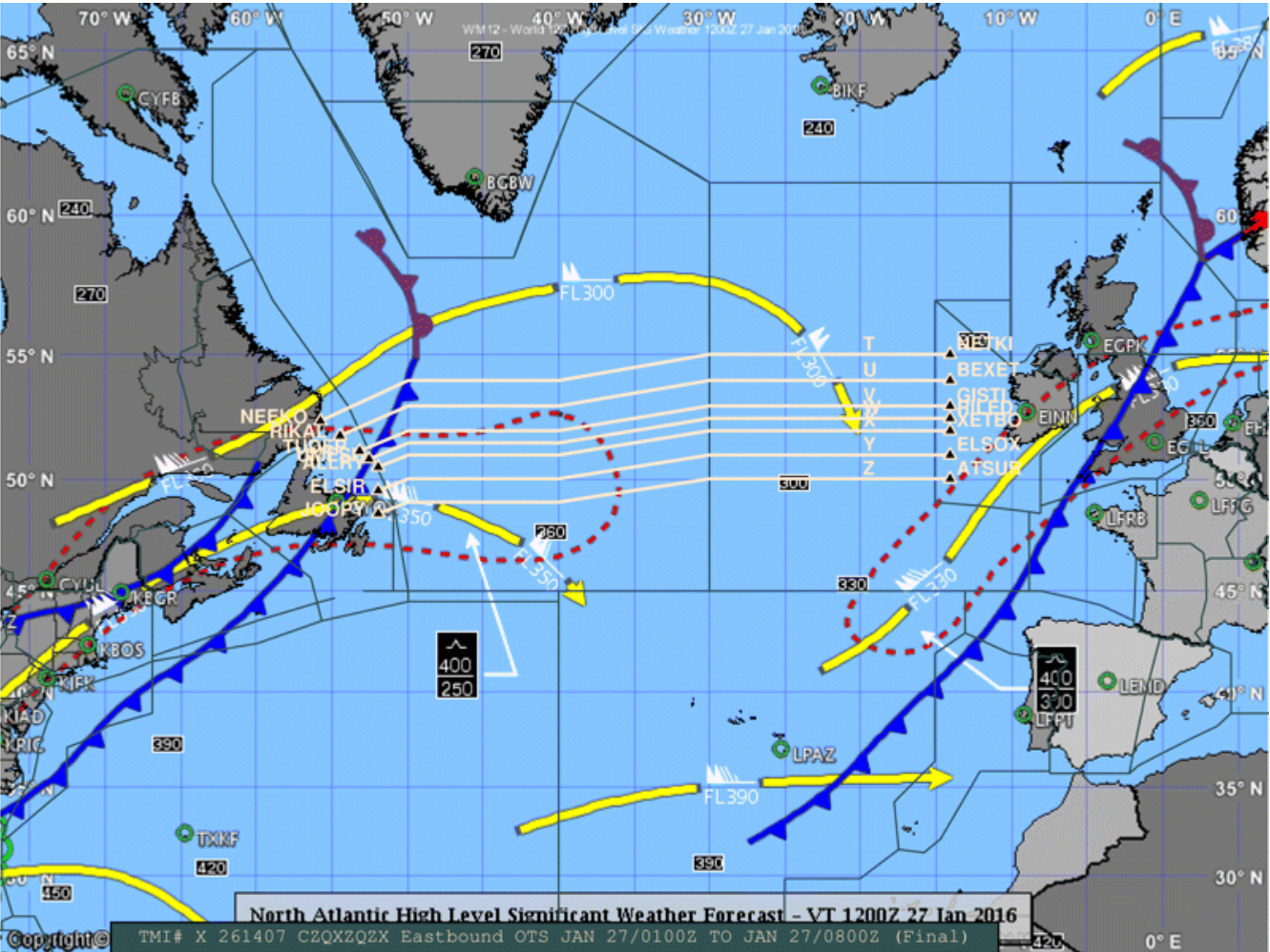


Jet Stream affects everything

Westbound OTS



Eastbound OTS



POS: 17:48:30 N 12:36:44 E

DBL FILTER 1: OFF

ALT FILTER: OFF

REC QNH: 08-09: ; 09-10:

PPOS: 7 min

RANGE: 2551 NM

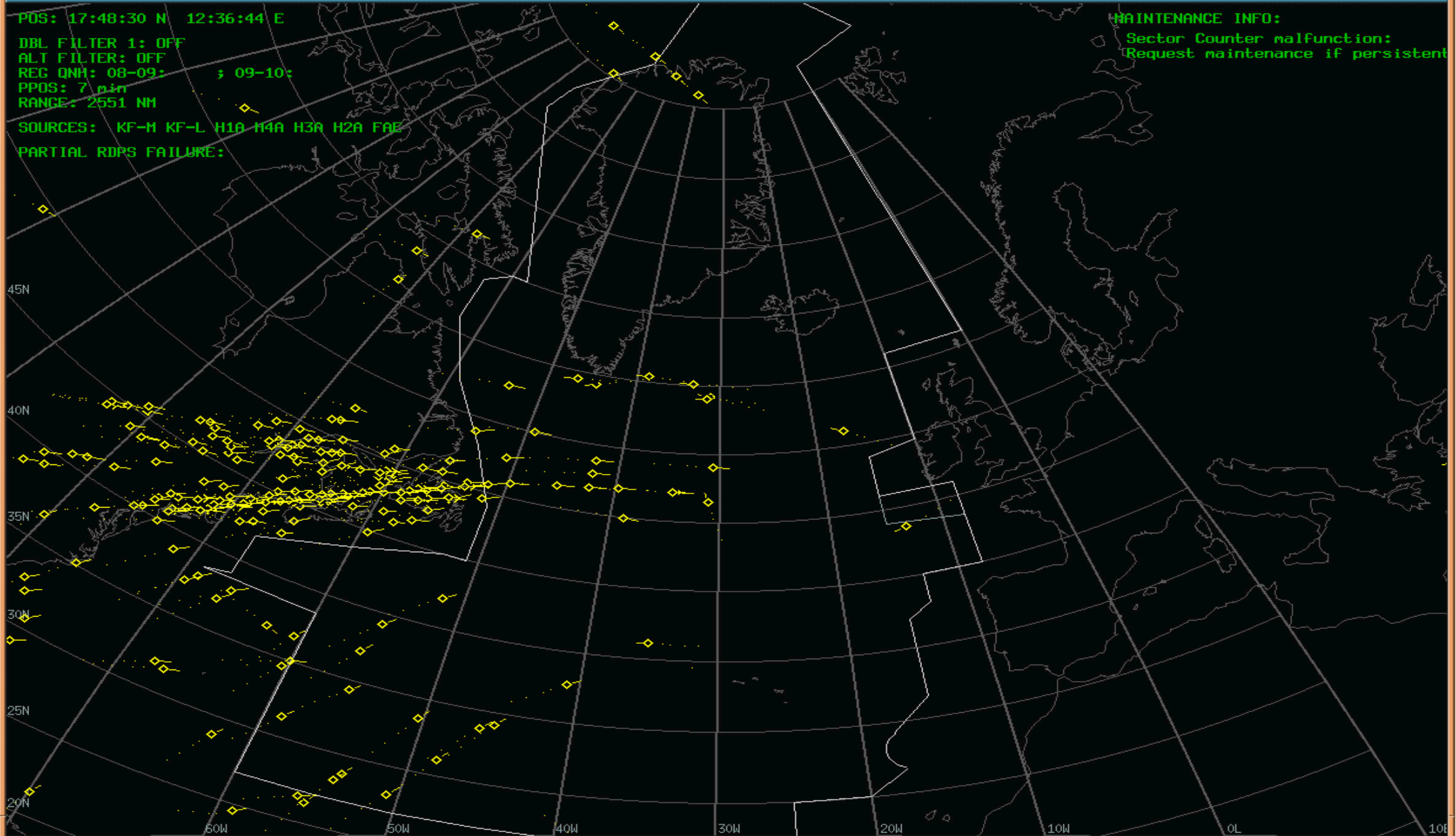
SOURCES: KF-M KF-L H1A H4A H3A H2A FAE

PARTIAL RDPs FAILURE:

MAINTENANCE INFO:

Sector Counter malfunction:

Request maintenance if persistent



ICAO Structure in the NAT/EUR

**NAT SPG
Services**

NAT SPG
North Atlantic Systems Planning Group

**Regional monitoring:
CMA
ASBU implementation report
Annual Safety Report
NAT DLMA**

NAT DLMA

NAT CMA

NAT DMO

NAT SOG
Safety Oversight Group

NAT IMG
Implementation
Management Group

NAT EFFG
Economic, Financial and
Forecast Group

CMA Central Monitoring Agency
DLMA Data Link Monitoring Agency
DMO Document Management Office

Mathematicians WG

Technology & Interoperability
Group

Scrutiny Group

Procedures & Operations
Group

MWG Occupancy
Methods

Oceanic Clearance
Removal

Network Outage Detection
and Reporting

Short term project teams
Active at the NAT SPG/58
time

Review of Oceanic
Clearance Removal NAT
Regional Safety Case

New Entrant Readiness

MNPS/HLA&PBN
Approvals



What we would like to know

- Overview of your Operation
- Current Status and Timeline
- Required NAT Airspace or Trajectory and Location
- Frequency of Activity
- Anticipated ATC and Regulatory Services

00:00



Any Questions?



Thank You!