Advanced meteorological service for air traffic management in Croatia

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Overview

- What is Air Traffic Management (ATM) and what kind of meteorological services (MET) it needs
- What is the main MET issue for ATM in Croatia
- What has been done in the past 5 years
- Future steps - projects
Area Control Center Zagreb Area of Responsibility
MET for ATM
MET for ATM

- ICAO standard products
- SIGMET
  - observed or forecast
  - TS, TURB, ICING
- new, non-standard
- not harmonized
MET for ATM in Croatia

- upper airspace (FL320-FL390) (275-200 hPa)
MET for ATM in Croatia

- MET service in Croatia Control has been working on the issue for the past 5 years:
  - Education about processes in ATM
  - Improvement in deep convection nowcasting and forecasting - ingredients based forecasting
  - Common workshops with ATM
  - Innovative new products for ATM (MET Sandwich, ATM Forecast and ATM Convection Nowcast)
  - Briefings in Area Control Centre Zagreb
MET Sandwich

MSG Rapid Scan
HRV + transparent colouring from IR
Lightning detection
ATM Forecast

2 day forecast
6 hour intervals
TS, TURB, jet streams
ATM Convection Nowcast (ATCoN)

6 hour forecast of convection
2 hour intervals
Future steps - only MET data not enough
eATCoN

- +8 hours forecast of TS
- harmonized cross-border
- probabilistic MET
- impact (to ATFCM) assessment
- (possible scenarios)
COOPANS MET CD&R Tool

Membership

Chosen Industry Supplier

THALES

SESAR
JOINT UNDERTAKING
COOPANS MET CD&R Tool

- Define “Weather Zones”
  - TS, from observations to 1 hour nowcast
- Translate this information to ATC radar screen
- create tools which suggest solutions ->
  conflict detection and resolution
- make information available to everyone
Thank you!

Questions?