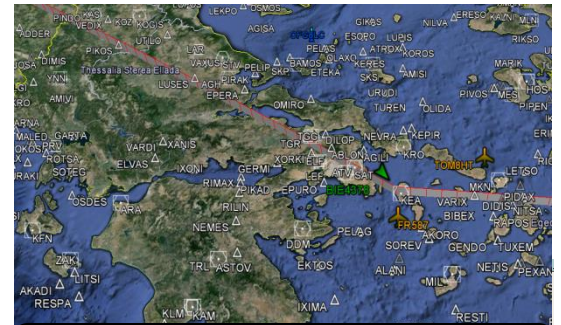


## Real time weather and aeronautical environment simulator

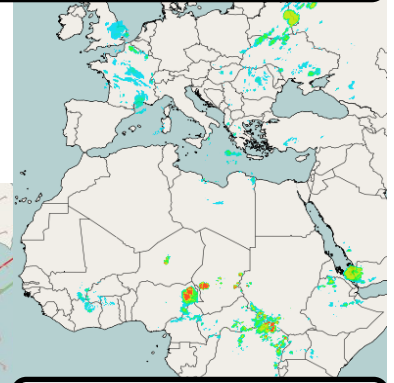
REPLAY provides environmental data for aeronautical simulations. Simulated scenarios are executed in real time.

REPLAY provides both aeronautical and meteorological data, from simple weather parameters to more complex weather products.

REPLAY integrates a flight generator able to create trajectories from real flight routes or real flight records.



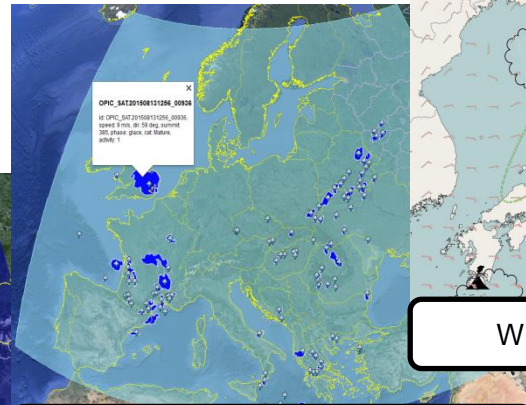
Flight simulation



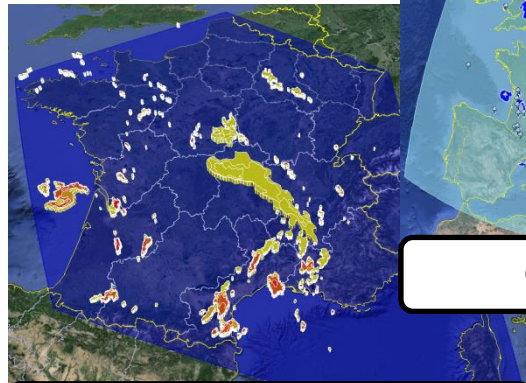
Precipitation estimate



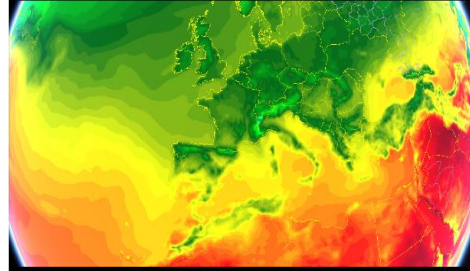
WINTEN & SIGWX



Convection detection



Ground Radar



Weather Environment



Weather services include weather parameters, WINTEN, SIGWX, Radar and Satellite products

Flight services integrate a flight generator, NavAids and Waypoints location service



## BENEFITS

### Rich Weather Environment

- Exploit a worldwide weather simulator
- Various features, from raw weather data to processed products
- Large panel of recent and classic products available

### Complete Flight Service

- More than 300 000 real flight plans
- Updated navigation database
- Generate your own flight through custom flight route

### Fast to deploy and easy to use

- Light web based architecture
- Multiple formats (kml, json, grib, etc)

## KEY FEATURES

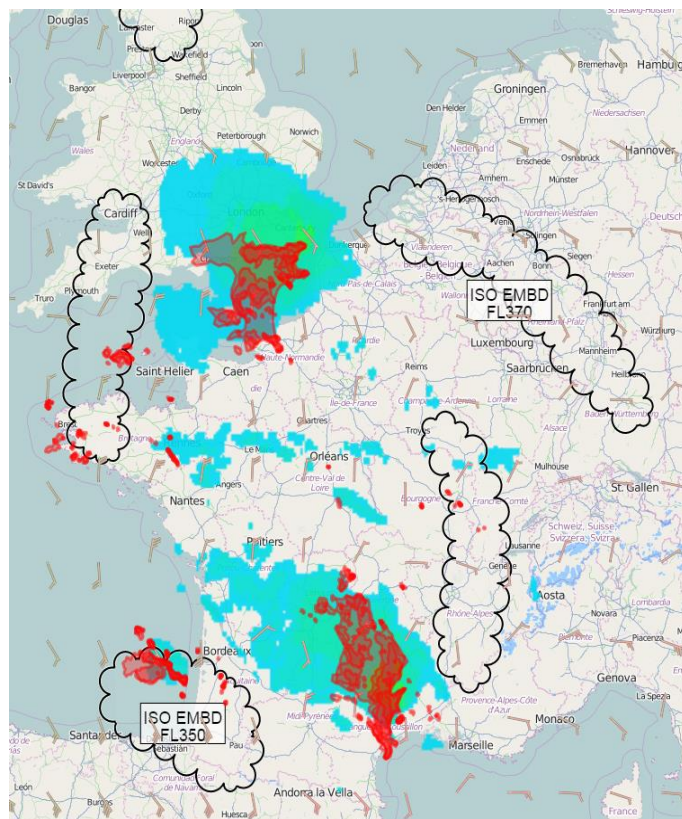
### Meteorology

- Worldwide models: GFS, ARPEGE 0.5
- Regional models: ARPEGE 0.1, AROME
- ICAO standard products: SIGWX, WINTEM, METAR, TAF
- Satellites derived products: rain, convection
- Radar derived products: convection
- In-situ observation

### Aeronautics

- Global nav aids: Waypoints, VOR, DME, NDB
- 300 000 flight plans from Eurocontrol and FAA
- Flight generator
- Probes emulation

Extendable to other models, products and observation data



```

METAR data:
METAR
LFGR 131000Z AUTO 06004KT 6000 +TSRA ///CB 15/14 Q1018=
TAF
LFGR 130500Z 1306/1406 11010KT CAVOK TEMPO 1306/1307 VRB15G30KT
3000 TSRA BKN008 BKN025CB BECMG 1307/1308 22010KT BKN020
FEW060CB BKN120 TEMPO 1308/1320 4000 SHRA BKN010 BKN040 SCT050CB
OVC100 PROB40 TEMPO 1307/1315 VRB20G30KT 2500 TSRA BECMG
1320/1322 BKN010 TEMPO 1322/1406 2000 BR OVC004=
    
```

## REFERENCES

CleanSky, SELEX, THALES, CGX AERO

More information on demand

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