







Status recap' after MAG-10

Readily actionable material and plans

Studying big applicative questions

Local spatio-temporal density, PC products...

Outlook on User Prep datasets

Realistic proxy with actual weather scenarii



Wrap-up post MAG-10 - Test Data experience and plans

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- Fundamental scientific questions identified and addressed
- User needs for preparation well covered
- Existing and planned datasets sufficient to the above
- A number of results presented to past MAGs and datasets made available to users already



Functional dev. & test



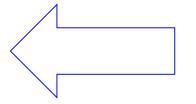
System tests



Scientific studies



User awareness & preparation



Simulated



Emulated

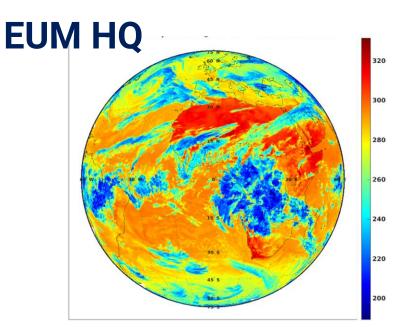


Proxies



Available datasets - Status tools, distributions, feed-back?

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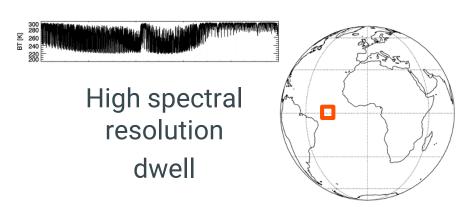
- √ Hourly disks, 24h
 - √ Formatted as per specs
 - √ In radiances and PCs
- ✓ New spectral grid & apodisation (until next?)
 - ✓ RTTOV
 - ✓ Updated disk → release mid-2022

NWC SAF



Already released
¿ Links
¿ User feed-back

- ✓ FCI/IRS
 - ✓ Full day, regional
 - ✓ SEVIRI and IASI
 - Resampled and geolocated





IRS specific questions in NWP and AC/AQ

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100x more observations than with IASI



L1 distributed in PCs



Spatial density → **horizontal error correlations**

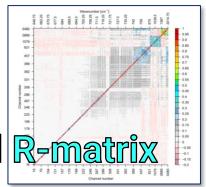


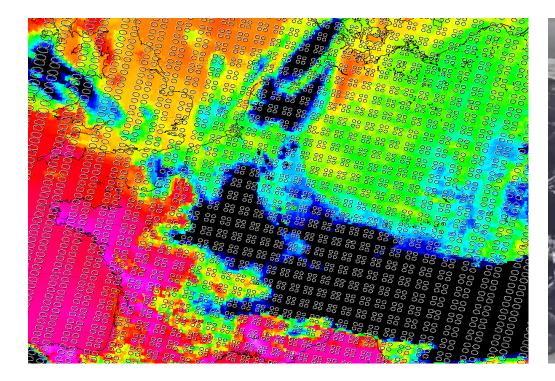
Temporal density (IRS: every 30min vs IASI: 2/day over Europe)



Imbalance with other data, esp. in a global model + the eternal R-matrix











IRS specific questions in NWP and AC/AQ - Real proxy observations

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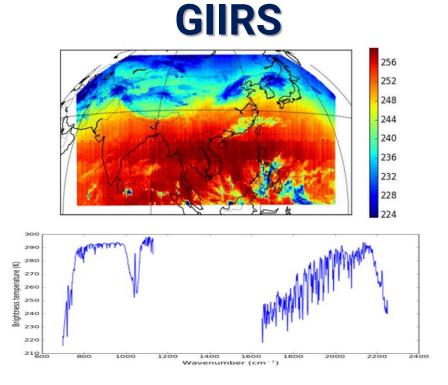
Spatial density → **horizontal error correlations**



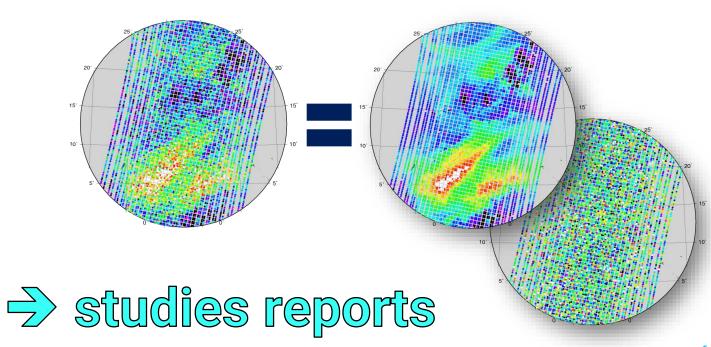
Temporal density (IRS: every 30min vs IASI: 2/day over Europe)



Imbalance with other data, esp. in a global model



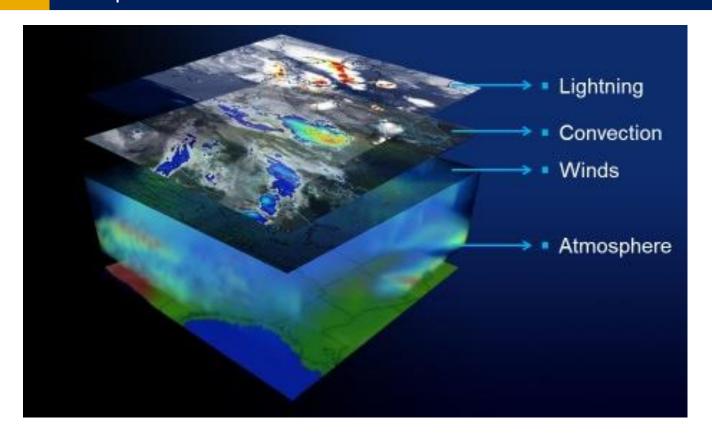
IASI recRad





Representative MTG 4D weather cubes – Simulated & Proxy Real

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To support a procurement in preparation:

MAG members contributions?

- High resolution model data
- Suggest cases of interest

Coordination with NWC SAF for complementarity and synergy

- 4D-weather data cubes with consistent data representative of FCI, LI and IRS
- A few selected relevant meteorological situations*: limited area, time series spanning the events
- Emulated from real observations as much as possible:
 e.g. ABI/GLM, later FCI/LI + simulated IRS

IRS Test data status & outlook - Thank you!

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