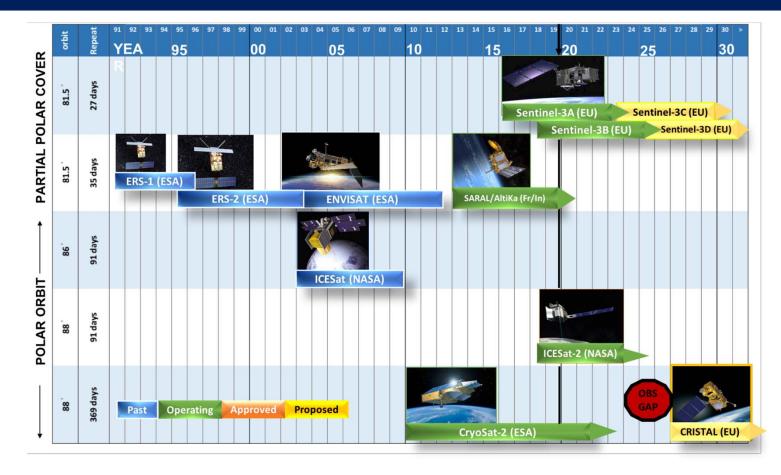
# **The Future of Altimetry - Discussion**

Eric Leuliette, Remko Scharroo,

Pascal Bonnefond, Josh Willis



## CRISTAL mission: Dual-band radar for polar altimetry

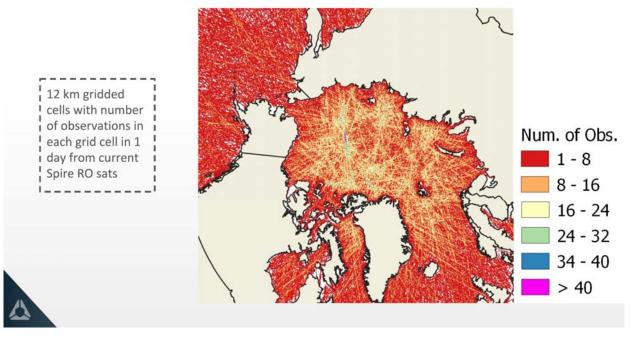


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#### **GNSS** Reflections – CubeSat Spire satellites

Initial results demonstrated < 10 cm RMSE height retrieval over sea ice and < 20 cm oceans

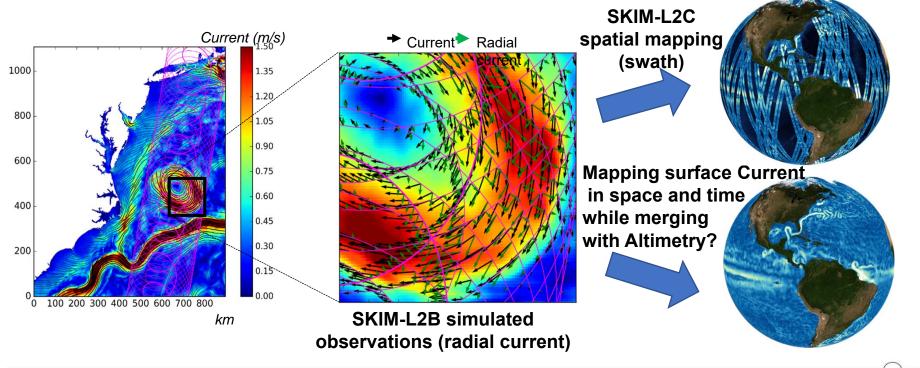
## **Coverage Analysis: Spire fleet, 1 day**



SKIM: a successful phase A at ESA



SKIM is designed to measure surface currents, ice drift and waves, using a Doppler Ka-band radar : <u>https://www.skim-ee9.org/</u>

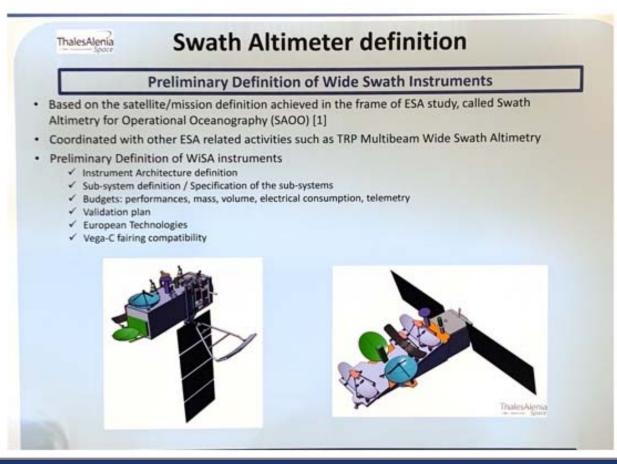


OSTST, October 2019, Perspectives for Surface Current reconstruction combining Altimetry and future Doppler current data

## Swath Altimetry for Operational Oceanography



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OSTST, October 2019, Perspectives for Surface Current reconstruction combining Altimetry and future Doppler current data

## **Recommendations?**

- For Sentinel-6 L2P product should be provided so that LRM data users have continuity with earlier Jason and TOPEX data record.
- CRISTAL launch target should be early 2020s to avoid gap between ICESAT/Cryosat/AltiKa – CRISTAL polar ocean & ice sheet coverage. (borrow slide with satellite timelines)

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