



Ocean Surface Topography Virtual Constellation

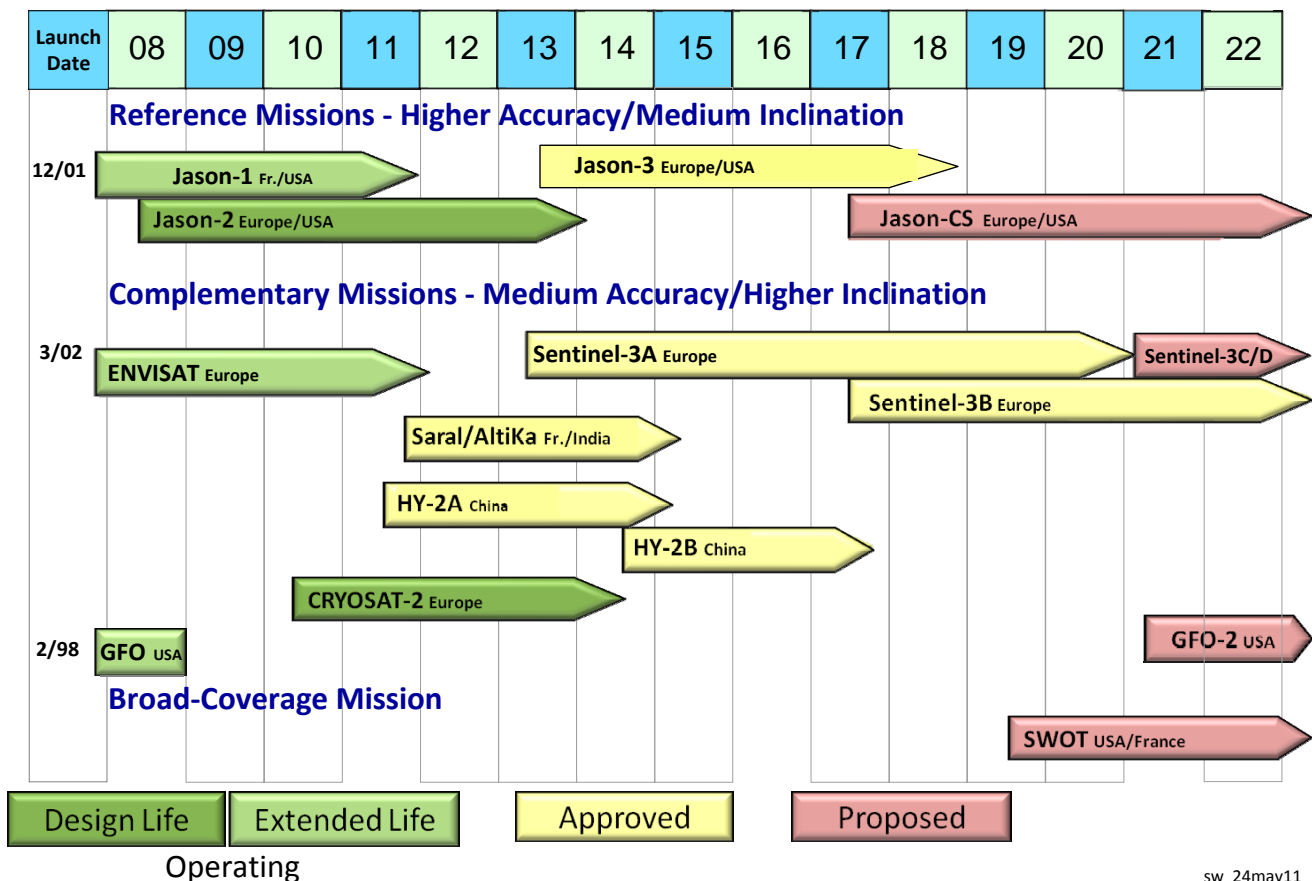
Co-Chairs:

Stan Wilson, NOAA → Eric Lindstrom, NASA

Francois Parisot, EUMETSAT

SIT-25, Frascati, 23-25 May 2011

GLOBAL ALTIMETER MISSIONS





OST VC – Status & Issues – 1

- **Continuity of Climate Record for Sea Level**
 - Jason-1 & -2 – Operating in interleaved orbits
 - Jason-3 – Development underway, but NOAA's FY11 funding held at FY10 level of \$20M – vice \$50M – will slip launch into 2014; FY12 funding could be held at same level causing further delay
 - Jason-CS – ESA – with EUMETSAT, NOAA, CNES & NASA – has initiated Phase B study; NOAA funding is limiting U.S. participation
- **Continuity of Complementary Coverage**
 - Cryosat-2 – Launched 8 Apr 10; awaiting availability of operational products for ice-free ocean
 - ENVISAT – Starting 22 Oct 10 orbit became non-repeating
 - ERS-2 – De-orbiting to begin this summer
 - SARAL/AltiKa – Launch planned for Dec 2011; if Jason-1 is still OK at end of SARAL's commissioning phase, it will move to a geodetic orbit
 - Sentinel-3A & B – Development proceeding with 1st launch in 2013

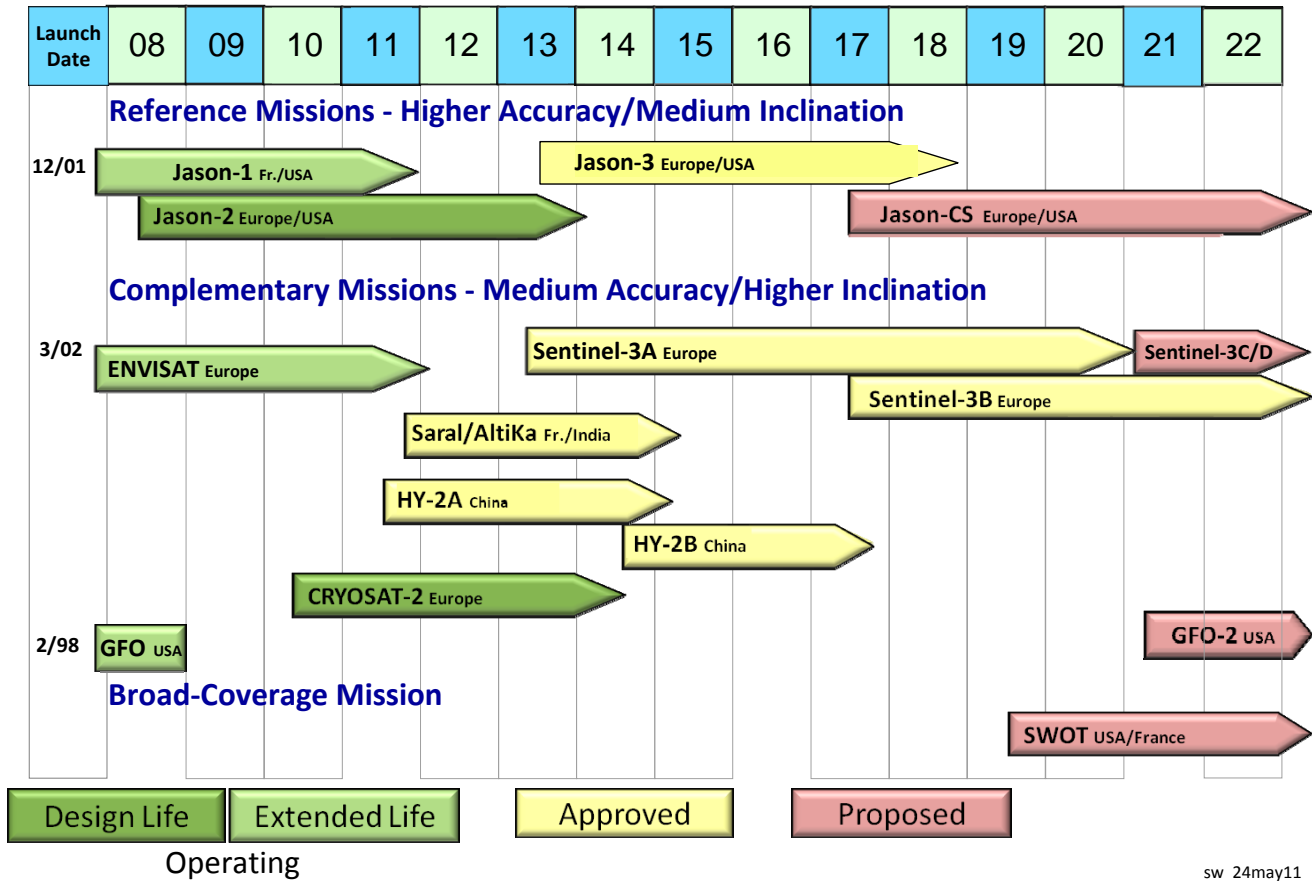


OST VC – Status & Issues – 2

- **Data Policy** – With its launch in late July, timely access to data from the Chinese HY-2A remains an issue
 - CNES is providing DORIS to fly on HY-2A – one avenue to address issue
 - SOA has contacted EUMETSAT about data access – another avenue
 - Data down-linking in China will preclude global operational use
- **Harmonized, Easily Accessible Altimeter Products**
 - The AVISO & RADS portals continue to provide easy access to inter-calibrated, integrated data for research use
- **Development of Surface Water Ocean Topography (SWOT)**
 - Joint between NASA and CNES with a contribution from CSA
 - CNES Phase A underway – with strong Government support
 - NASA MCR in March 2012 to initiate its Phase A
 - Formal agreement for implementation is pending
 - Launch readiness date is Dec 2019



GLOBAL ALTIMETER MISSIONS



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Ocean Vector Wind Virtual Constellation

Co-Chairs:

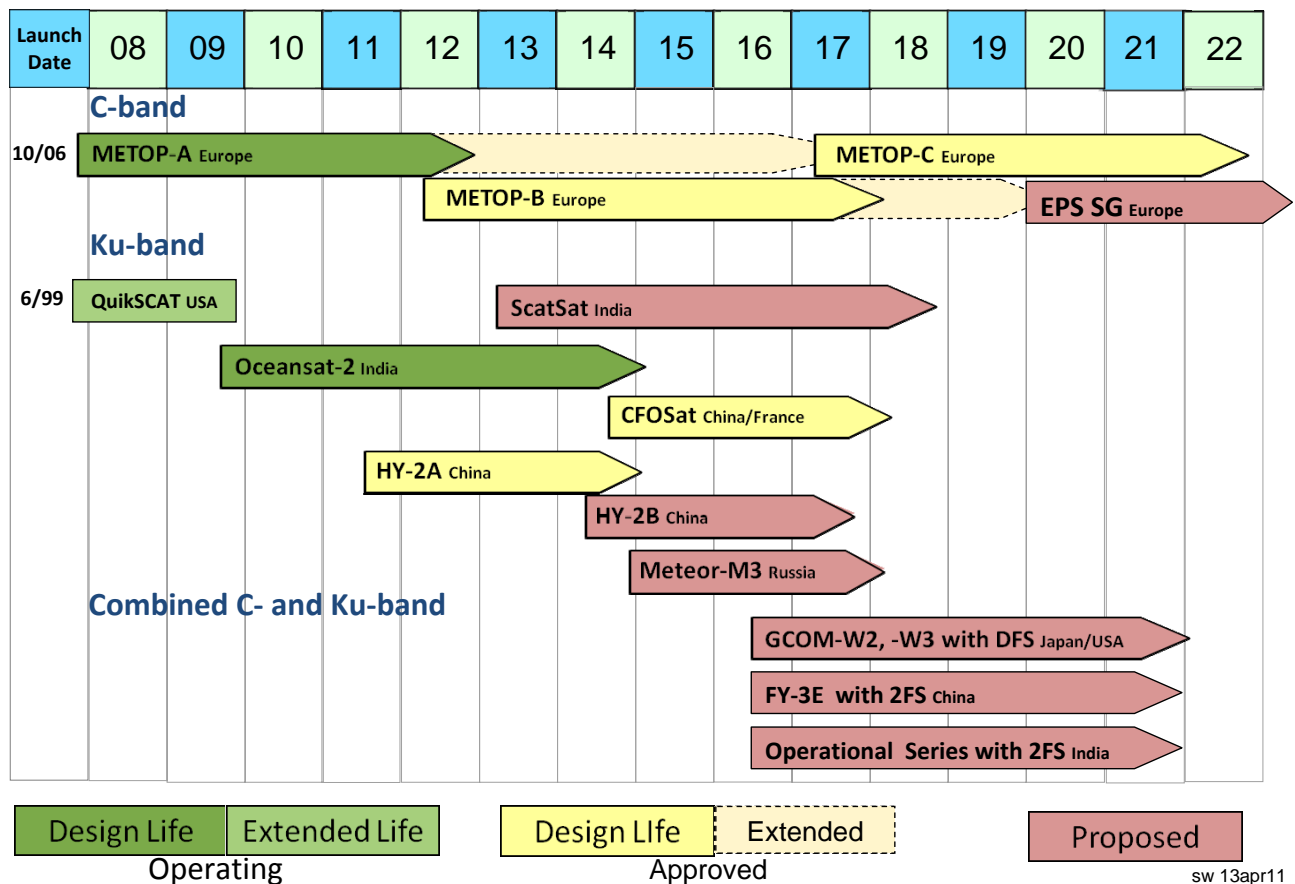
Stan Wilson, NOAA → Paul Chang, NOAA

Hans Bonekamp, EUMETSAT

B.S. Gohil, ISRO

- **Combined Ku-/C-band Observations**
 - DFS on GCOM-W2 – NOAA: DFS is “unaffordable in the foreseeable future”; NASA to address what the U.S. will do to follow
 - 2FS on operational series – ISRO plans to implement an operational series building on OSCAT & ScatSat; launch in ~2016
 - 2FS on FY-3E – CMA plans to implement this once SOA demonstrates HY-2A; launch also ~2016
- **Timely Data Access**
 - Remains an issue for Chinese (SOA) & Russian scatterometers
 - Once CMA takes over Chinese scatterometry, this issue may be resolved since CMA’s NSMC has stated that timely data access will be available
- **Harmonizing Orbits to Optimize Coverage**
 - ISRO, EUMETSAT, CMA, NASA, NOAA & operational users need to make the case for harmonizing orbits in the 2016 timeframe to optimize coverage among as many as three two-frequency scatterometers

GLOBAL SCATTEROMETER MISSIONS





2nd Training Course – *Use of Satellite Wind & Wave Products in Marine Forecasting*

- Operational centers in developing countries do not typically use satellite wind & wave (SWH) products in marine forecasting
 - A ‘portal’ for OVW & SWH from multiple satellites is under development at Florida State U and will be demonstrated in Aug 2011
 - Both NOAA’s NWS & INPE’s CPTEC use GEMPAK/N-AWIPS; CPTEC has helped the Brazilian Navy implement it operationally and would consider doing the same for centers in other South American countries
- A 2nd Training Course has been proposed by NOAA, EUMETSAT, ONR and possibly others:
 - To be hosted at CPTEC & focus on major South American forecast centers
 - Employ the OVW/SWH portal
 - Lay the basis for the adoption of GEMPAK/N-AWIPS as a common forecast software package for South America
- **Scheduling, most likely early next year, awaits funding**