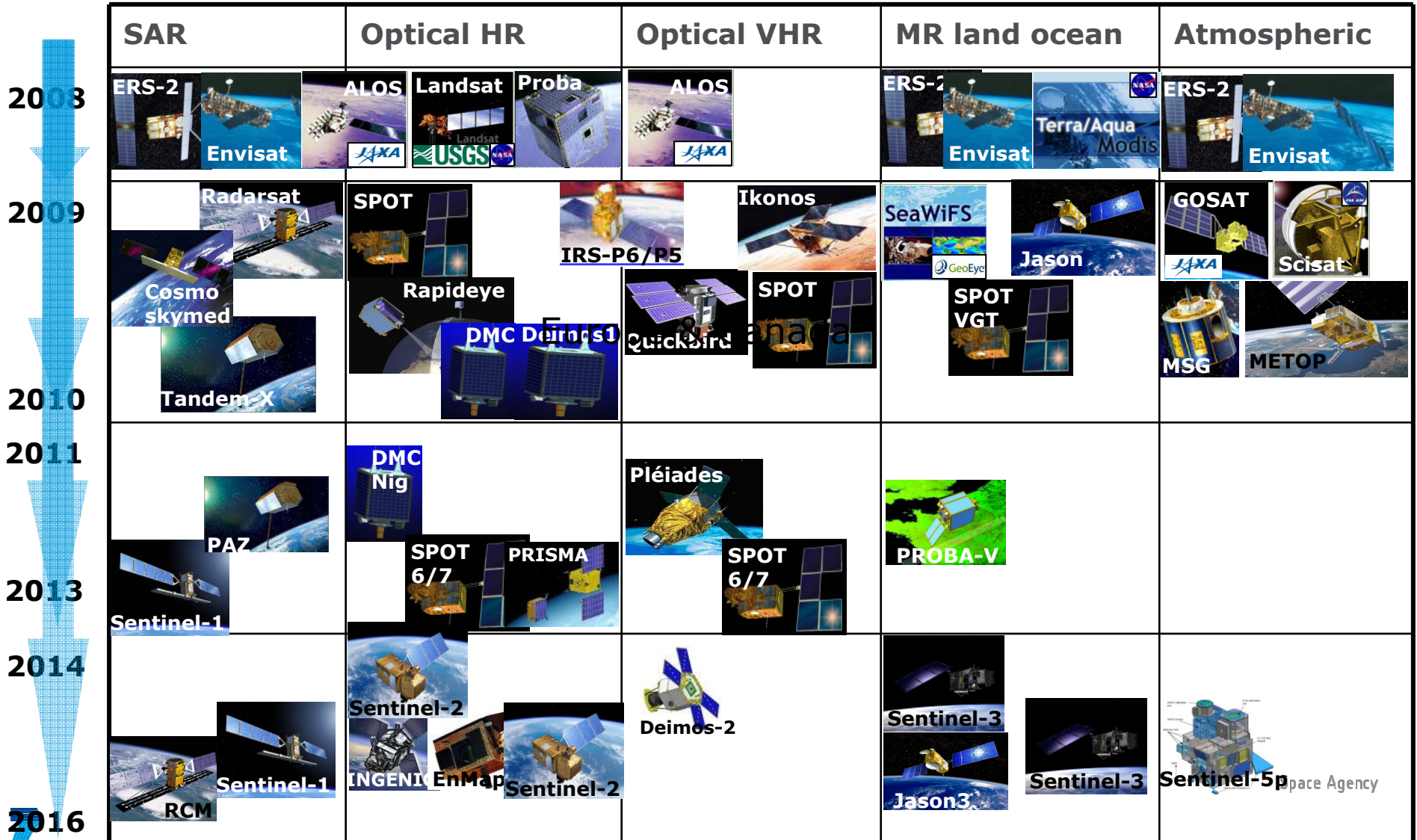


GMES Space Component

The European and Canadian EO capacity in the coming years

GMES Space Component Progressive built-up 2008-2016



SAR Missions in Europe and Canada



SAR missions	Principal Owner	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
C-Band SAR																
Envisat (ASAR)	ESA	In orbit	In orbit	In orbit												
Sentinel-1 A	ESA			Approved	Approved	Approved	Approved	Approved	Approved	Approved						
Sentinel-1 B	ESA						Approved	Approved	Approved	Approved	Approved	Approved	Approved			
Sentinel-1 C, ...	ESA										Approved	Approved	Approved	Approved	Approved	Approved
Radarsat-2	CSA	In orbit	In orbit	In orbit	In orbit											
RCM	CSA						Approved	Approved	Approved	Approved	Approved	Approved				
X-Band SAR																
TerraSAR-X	DLR	In orbit	In orbit	In orbit												
TerraSAR-X/2	InfoTerra						Approved	Approved	Approved	Approved	Approved					
TanDEM-X	DLR	In orbit	In orbit	In orbit	In orbit	In orbit										
Cosmo-Skymed-1,2,3	ASI	In orbit	In orbit	In orbit	In orbit	In orbit										
Cosmo-Skymed-4	ASI	In orbit	In orbit	In orbit	In orbit	In orbit	In orbit	In orbit								
Cosmo-Skymed 2nd gen A,B	ASI								Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved
SeoSAR/PAZ	CDTI			Approved	Approved	Approved	Approved	Approved								
SeoSAR/PAZ-2	CDTI								Approved	Approved	Approved	Approved	Approved			

In orbit
 Approved
 Planned

N.B. Bars indicate estimated time of mission Operations in full year intervals

Tab. 1 – Overview of current and planned SAR missions in Europe and Canada

Optical multispectral missions in Europe & Canada



Optical missions	Principal Owner	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Low Resolution (res > 300 m)																
Sentinel-3 (SLSTR) A	ESA															
Sentinel-3 (SLSTR) B	ESA															
Sentinel-3 (SLSTR) C, ...	ESA															
SPOT-4/-5 (VGT)	CNES															
Medium Resolution 1/2 (30 m < res ≤ 300 m)																
PROBA-V/BELSPo	ESA															
Sentinel-3 (OLCI) A	ESA															
Sentinel-3 (OLCI) B	ESA															
Sentinel-3 (OLCI) C, ...	ESA															
High Resolution 2 (10 m < res ≤ 30 m)																
SPOT 4	CNES															
UK-DMC & UK-DMC 2	DMCII															
Delmos-1	Delmos															
Sentinel-2 A	ESA															
Sentinel-2 B	ESA															
Sentinel-2 C, ...	ESA															
High Resolution 1 (4 m < res ≤ 10 m)																
RapidEye (S S/C)	RapidEye															
RapidEye Follow-on	RapidEye															
Venys	CNES-ISA															
Very High Resolution 2 (1 m < res ≤ 4 m)																
SPOT 5	CNES															
SPOT-6, -7	Spot Image															
Seosat/Ingenio	CDTI															
Seosat/Ingenio-2	CDTI															
Very High Resolution 1 (res ≤ 1 m)																
Pleiades-1, -2	CNES															
DMC3	DMCII															
Delmos-2	Delmos															
HIROS (TBC)	DLR															
Hyperspectral missions																
EnMap	DLR															
PRISMA	ASI															



Altimetry Missions in Europe & Canada



Altimetry missions	Principal Owner	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Sentinel-3 A (SRAL)	ESA				Approved	Approved	Approved	Approved	Approved	Approved	Approved					
Sentinel-3 B (SRAL)	ESA								Planned	Planned	Planned	Planned	Planned	Planned	Planned	
Sentinel-3 C, ... (SRAL)	ESA											In orbit	In orbit	In orbit	In orbit	In orbit
Envisat (RA-2)	ESA	In orbit	In orbit	In orbit												
Cryosat-2	ESA	In orbit	In orbit	In orbit	In orbit	In orbit										
OSTM/JASON-2	CNES-EUM-NASA-NOAA	In orbit	In orbit	In orbit												
JASON-3	EUM/NOAA				Approved	Approved	Approved	Approved	Approved							
JASON-CS	ESA								Planned	Planned	Planned	Planned	Planned			
SARAL (AltiKa)	ISRO/CNES		Approved	Approved	Approved											

In orbit
 Approved
 Planned

N.B. Bars indicate estimated time of mission Operations in full year intervals

Slide 5

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Atmospheric Missions in Europe & Canada



Atmosphere composition monitoring missions	Principal Owner	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Geostationary																
MTG (Sentinel-4 A, B)	ESA															
MTG - 6 S/C	EUMETSAT															
METEOSAT (MVIC) - 7 S/C	EUMETSAT															
MSG (SEVIRI/GERB) - 4 S/C	EUMETSAT															
Polar orbit																
Sentinel-5 precursor	ESA															
METOP-SG (Sentinel-5 A, B)	ESA															
METOP-SG (GOME-2/IASI) - 2 S/C	EUMETSAT															
Envisat (GOMOS/MIPAS/SCIA/AATSR/MERIS)	ESA															
METOP (GOME-2/IASI) - 3 S/C	EUMETSAT															
MERLIN	CNES/DLR															
CALIPSO	CNES/NASA															

In orbit
 Approved
 Planned

N.B. Bars indicate estimated time of mission Operations in full year intervals

Tab. 7 – Overview of current and planned atmospheric missions

