Enlarge the Community of Users

SA

<u>New target:</u> Community of users that are less familiar with satellite missions and instruments, but that have a good knowledge of specific phenomena (e.g. volcanoes) and/or measurements.

Objective:

- Increase the awareness of non-EO specialists.
- Show that remote sensing is a valuable and reliable additional source of information, that can benefit multiple domains

Today, there is no indication of types of hazards

Updated for	2021			2 Same	No. 1 No.
Home Database Agencies EO Handbook	Missions Activity Table Index	Instruments Table Index	Measurements Overview Timelines	Datasets Activity	ENHANCED BY Google
		CEOS EO H	ANDBOOK - MEAS	SUREMENTS	
The CEOS Missions	, Instruments, and N n satellite data. The rre), and measureme • Aerosols	leasurements database table below includes nt timelines (right).	e contains information links to further inform + Lightnin	on many key measur nation on broader me g Detection	he Earth Observation Handbook ements of interest to the main of easurement categories (left), mo
	◆ Atmosph ◆ Atmosph ◆ Cloud pa	ticle properties and pro-	♦ Ozone ♦ Radiation ♦ Trace ga	ater and precipitation n budget ses (excluding ozone	
Land Albedo and reflectance inland Waters Landscape topography Multi-purpose imagery (land) Ocean Ocean colour/biology Ocean surface winds		iters e topography	◆ Soil moi ◆ Surface ◆ Vegetatio	temperature (land)	Timeli
		♦ Ocean w	pography/currents ave height and spect temperature (ocean)	rum	
Snow and Ice	◆ Sea ice c	topography over, edge and thicknes rer, edge and depth	35		Timeli





Limited search by "Applications"



 Currently, CEOS MIM has no dedicated "Applications" tab

o only "Missions", "Instruments", "measurements"

- "Applications" query field gives limited results e.g.
 - Floods: 1 mission, 3 instruments
 - Volcanoes: 3 missions, 3 instruments

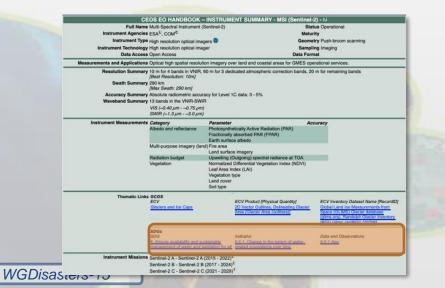
.... due to insufficient information attached to individual mission and instrument

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Home Database Agencies EO Handbook	Mission Activity Table Index	s Instru Table Index	iments	Measurements Overview Timelines	s Datasets Activity	ENHANCE	ED BY Google
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Agency /	All	~			Keyword F	iltering (max 20	char)
Mission Status	Current+Future 🗸	•			Mission Name		
Instrument Status	Operational+Futu	re 🗸			Instrument Name		
Type /	All			~	Applications v	olcano	
Technology	All		~		Spatial Assolution Bost	II 🗸	
Waveband /	All	~			Data Access	1	~
Display [10 🗸 Results Pe	r Page					
4	Apply Filter		Re	set Filter		Export to	o Excel
nstrument	Agency	Missions	Status	Туре	Measurements & applications	Technical chara	acteristics
1SRS (FireBIRD 1 TET-1)) 1ot Spot Recognitior System (FireBIRD 1 TET-1))	DLR	Current: FireBIRD 1 (TET-1) Future: - Complete: -	Operational	Imaging multi- spectral radiometers (vis/IR)	Used to collect data regarding high temperature events on Earth's surface, including heat irregularities such as volcances, burning ships, industry hotspots, gas flares, chemical heat generation and smouldering fires.	Waveband: Spatial resolutio Swath width: Accuracy: Data Access: Data Format:	in:
band SAR NISAR) -band Synthetic yperture Radar SAR) (NISAR)	NASA (ISRO)	Current: - Future: NISAR Complete: -	Approved	lmaging microwave radars	3-year mission to study solid earth deformation (earthquakes, volcances, landslides), changes in ice (glaciers, sea ice) and changes in vegetation biomass	M Spatial 10 resolution: Be Swath width: 24 gl	•
S-band SAR NISAR) S-band Synthetic yperture Radar SAR) (NISAR)	ISRO	Current: - Future: NISAR Complete: -	Approved	lmaging microwave radars	3-year mission to study solid earth deformation (earthquakes, volcanoes, landslides), changes in ice (glaciers, sea ice) and changes in vegetation biomass	Waveband: Spatial resolutio Swath width: Accuracy: Data Access: Data Format:	Microwave: 3.2 GHz MW, S-Band in: 4 - 24m resolution Best resolution: 4 m 230 km min TBD Open Access TBD





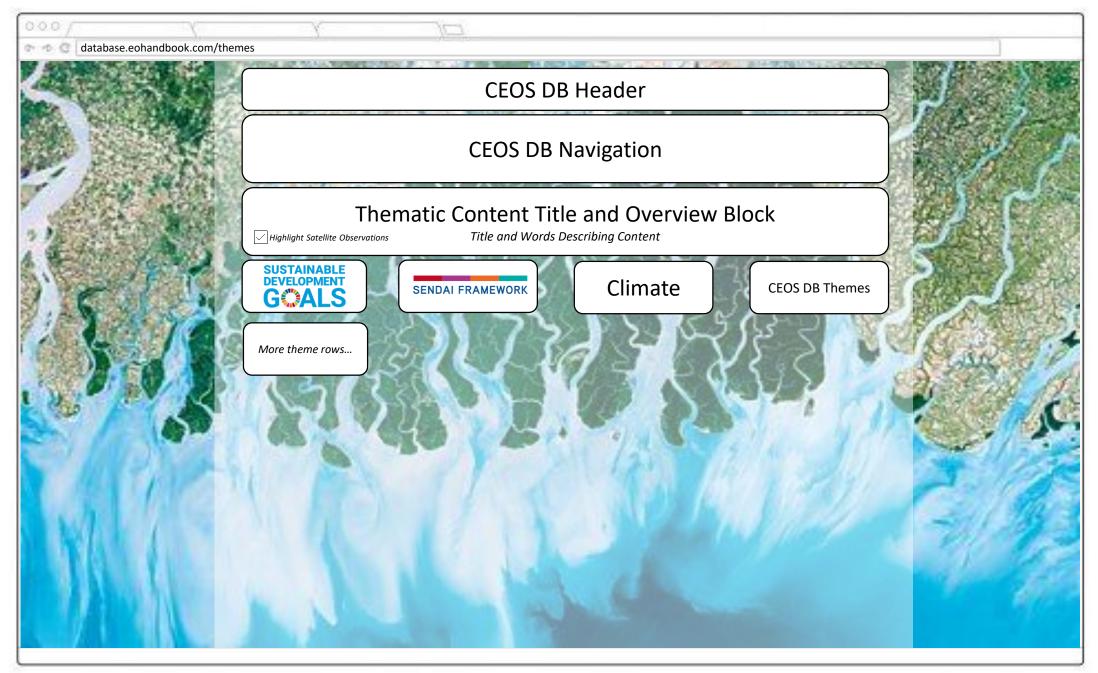
- WGDisasters to work with CEOS MIM team (ESA, Symbios) to define the improvements to be brought to CEOS MIM to better serve the Disaster Risk Management community (decisionmakers, practitioners, scientists, disaster experts, organisations...)
 - "Applications" tab ? Other ?
 - Query results pointing to ..? Datasets, Missions, Instruments, Measurements, other ,.... ?



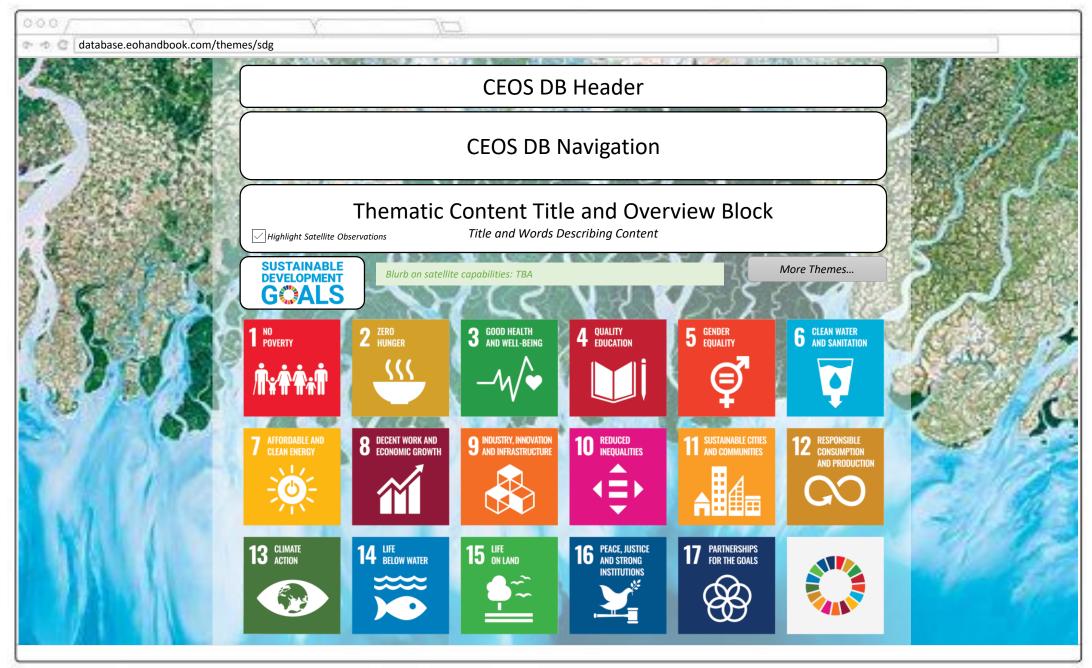
CESS 📀	esa	THE	CEOS DATA	BASE	-
Updated for 2021			States 2	X	
Home Missions Database Activity Agencies Table EO Handbook Index	Instrument Table Index	s Measurements Overview Timelines	Datasets Activity	NHANCED BY Google	
	CEOS EO HAN	NDBOOK - MEASUREMEN	IT INSTRUMENTS		
Land surface imagery	used, so that smaller	Function (MTF) at the Nyquisi figures correspond to better p	espauar waveilengin (WiCe in erformance, as usual.	re resolution). Acti	uany [1
Instrument	Status/ Accuracy	Instrument Description		Measurement Technology	Tim
Advanced MI Advanced Meteorological Imager		Continuous monitoring capability generation of high-resolution me term change analysis of sea surf coverage.	Multi-purpose imaging Vis/IR radiometer		
AEISS Advanced Electronic Image Scanning System		High resolution imager for land a disaster monitoring.	High resolution optical imager		
AEISS-A Advanced Electronic Image Scanning System-A		High resolution imager for land applications of cartography and disaster monitoring.		High resolution optical imager	
AGRI Advanced Geosynchronous Radiation Imager	free & open	A multiple channel radiation imager, one of the primary instruments aboard FY-4. Technically featured by a precisely designed two-mirror structure, capable of accurate and flaxible sensing in two dimensions, and minute-level fast sector scanning. Frequent Earth imaging over 14 bands with off-axis three reflections of the primary optic system. On-board black body available for IR calibrations at very short time intervals		Multi-purpose imaging Vis/IR radiometer	
ASTER Advanced Spaceborne Thermal Emissic and Reflection Radiometer	n free & open	Surface and cloud imaging with I stereoscopic observation of local volcanic plumes, and generation maps. Surface temperature and detectors are no longer functioni SWIR detector temperatures. AS April 2008 are not useable, and i severe striping. All attempts to bi	I topography, cloud heights, of local surface digital elevatior emissivity, ASTER SWIR ng due to anomalously high TER SWIR data acquired since show saturation of values and		

2. In operations, WG Disasters responsible for filling the CEOS MIM database with the relevant information, and keep it up to date.

CEOS DB Thematic Interface Wireframe – Top Level

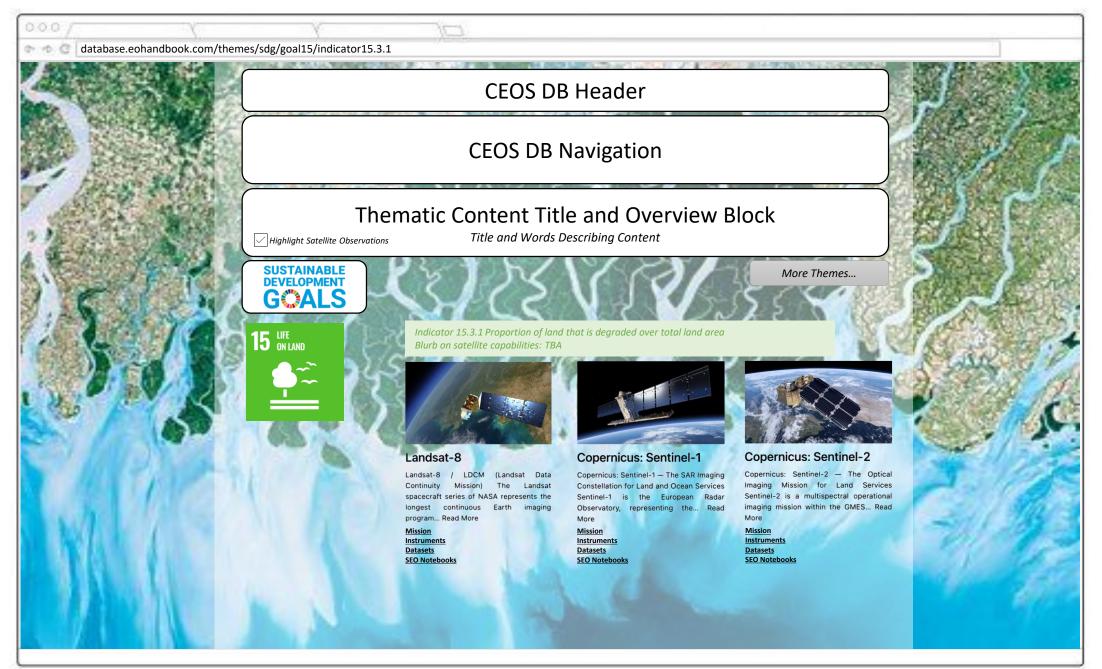


CEOS DB Thematic Interface Wireframe – SDGs Level 1



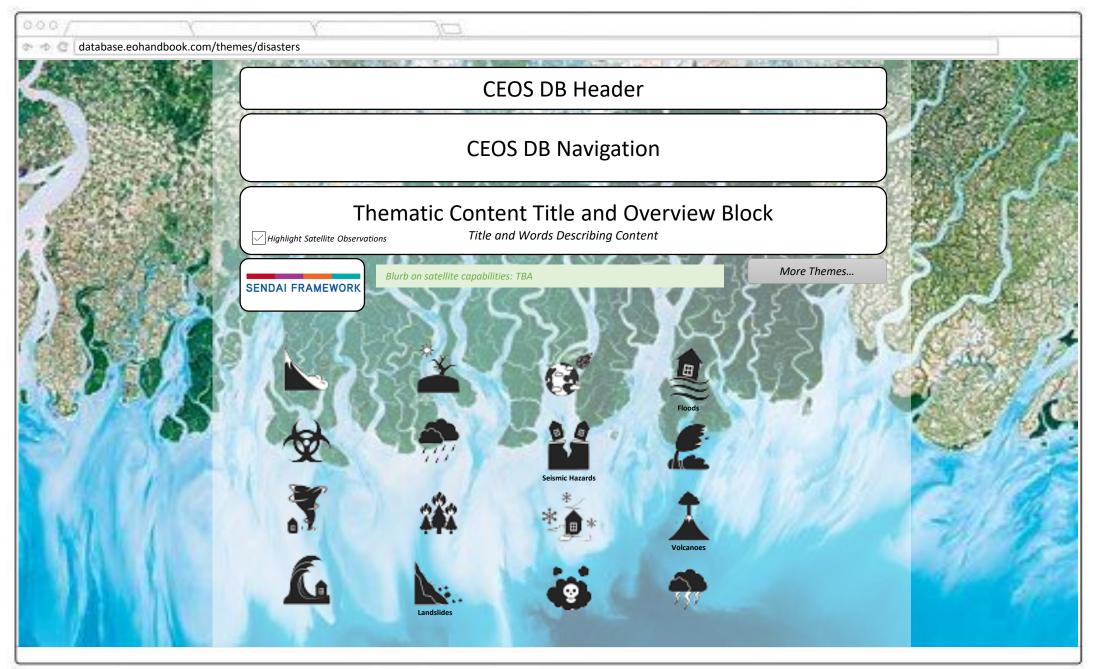
References: https://ceos.org/sustainabledevelopment/news/communications-material/; https://ceos.org/sustainabledvelopment/news/communications-material/; https://ceos.org/sustainabledvelopment/news/communications-material/; https://ceos.org/sustainabledvelopment/news/communications-material/; https://ceos.org/sustainabledvelopment/news/communications-material/; https://ceos.org/sustainabledvelopment/news/communications-material/; https://ceos.org/sustainabledvelopment-news/communications-material/; https://ceos.org/sustainabledvelopment-news/communications-material/; https://ceos.org/sustainabledvelopment-news/communications-material/; https://ceos.org/sustainabledvelopment-news/communications-material/; https://ceos.org/sustainabledvelopment-news/communications-material/; https://ceos.org/sustainabledvelopment-news/communications-material/; <a href="https://ceos.org/sustainabledvelopment-news/communications-material-news/communications-news/communications-news/communications-material-news/communications-news/communications-news/com

CEOS DB Thematic Interface Wireframe – SDGs Level 2



References: https://www.un.org/sustainabledevelopment/news/communications-material/; http://cohandbook.com/sdg/files/CEOS_EOHB_2018_SDG_p19-25.pdf; https://ceos.org/ourwork/ad-hoc-teams/sustainable-development-goals/documents/

CEOS DB Thematic Interface Wireframe – Disasters Level 1



CEOS DB Thematic Interface Wireframe – Disasters Level 2

