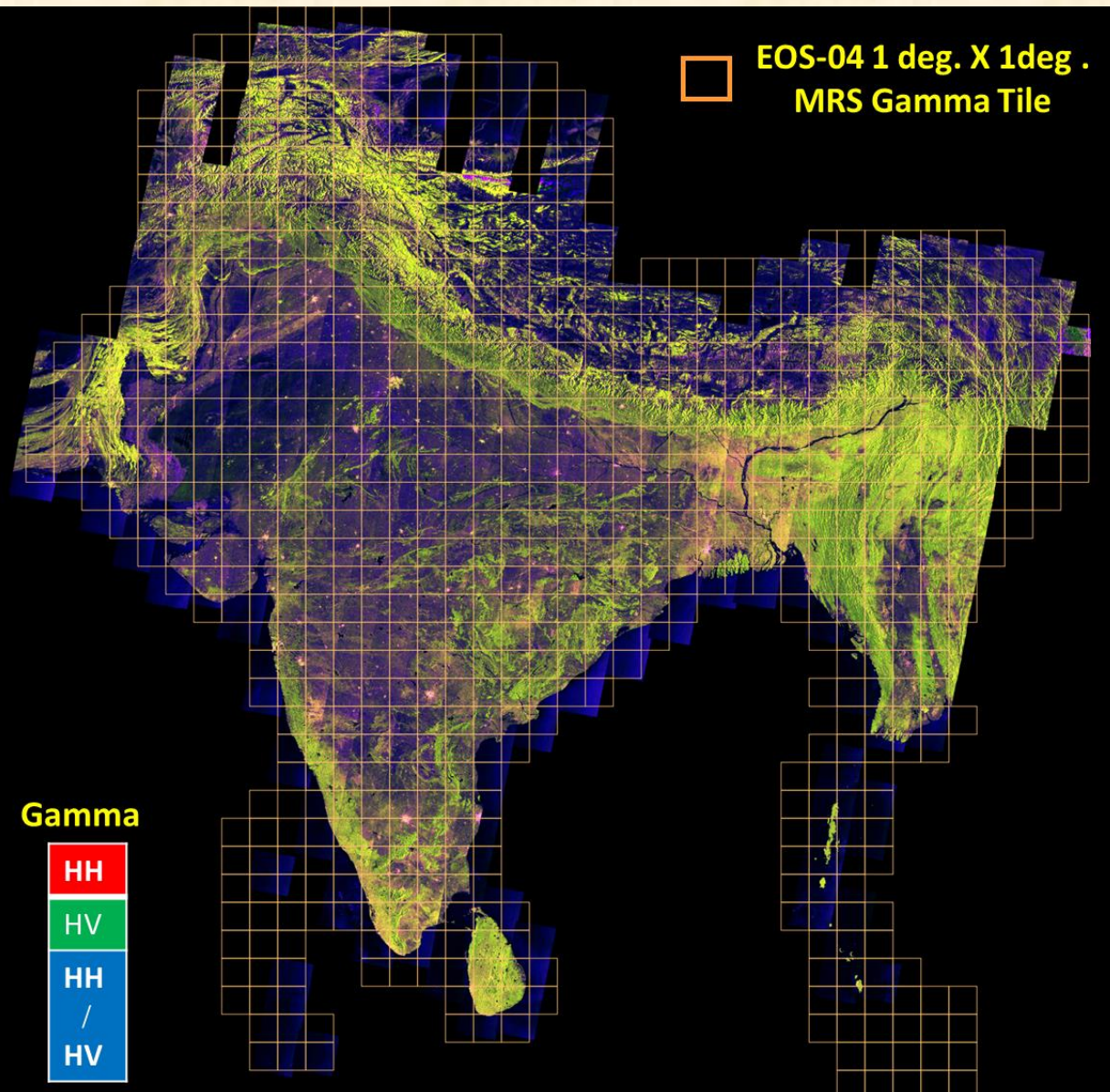


EOS-04 Normalized Radar Backscatter (NRB) Medium Resolution ScanSAR (MRS) India Mosaic Product



- Indian Landmass systematically covered in EOS-04 Medium Resolution ScanSAR (MRS-33 m Resolution) mode every 17 days.
- EOS-04 Level-2B NRB product is CEOS-ARD compliant as per the new consolidated PFS template v 1.1 for all SAR CEOS-ARD products
- EOS-04 India Mosaic product is a 1 deg. X 1deg. tiled composite product of CEOS ARD compliant EOS-04 Level-2B NRB data product
- Cycle (17 days) to cycle registered product will aid in Time-Series analysis by application users.
- EOS-04 MRS India Mosaic ARD product has been endorsed by CEOS as the Analysis Ready Dataset (ARD)

CEOS Analysis-Ready Datasets						
<input type="checkbox"/>	Name	Status	Type	Version	Agency/Orga...	Mission / Instrument(s)
1	ALOS-2 PALSAR-2 Global Mosaics (RTC)	CEOS-ARD	SAR-NRB	v1.0	JAXA	ALOS-2 PALSAR-2
2	ALOS-2 PALSAR-2 25m & 50m ScanSAR ...	CEOS-ARD	SAR-NRB	v1.0	JAXA	ALOS-2 PALSAR-2
3	Catalyst Sentinel-1 RTC	CEOS-ARD	SAR-NRB	v1.1	Catalyst/PCI	Sentinel-1A , 1B
12	NovaSAR-1 RTC	CEOS-ARD	NRB	v5.5	CSIRO	NovaSAR-1
13	Opera RTC Sentinel-1	CEOS-ARD	NRB	v5.5	NASA/JPL	Sentinel-1 (A, B)
14	PROBA-V L3 (0.1/0.333/1 km) TOC	CEOS-ARD	Surface Reflectance	v5.0	VITO / ESA	PROBA-V
15	RISAT-1A (EOS-04) NRB	CEOS-ARD	SAR-NRB	v1.0	ISRO	RISAT-1A (EOS-04)
16	RISAT-1A (EOS-04) NRB India Mosaic	CEOS-ARD	SAR-NRB	v1.1	ISRO	RISAT-1A (EOS-04)
17	Sentinel-1 RTC	CEOS-ARD	NRB	v5.5	Sinergise & Digit...	Sentinel-1A , 1B

Image Showing EOS-04 Gamma0 Tiles for India Mosaic ARD products



EOS-04 Normalized Radar Backscatter (NRB) Medium Resolution ScanSAR (MRS)

India Mosaic Product Specification

Product Contents	
File Name	Description
BAND_META.txt	ASCII Meta Parameters file
Product_TILE_ID_HH.tif	Per Pixel HH Polarization RTC Gamma0
Product_TILE_ID_HV.tif	Per Pixel HV Polarization RTC Gamma0
Product_TILE_ID_area.tif	Per Pixel Normalization Area for RTC
Product_TILE_ID_lia.tif	Per Pixel Local Incidence Angle
Product_TILE_ID_mask.tif	Per Pixel Layover-Shadow Mask
Product_TILE_ID_date.tif	Per Pixel Acquisition Date (relative date offset from launch day 14th Feb 2022)
Product_TILE_ID.xml	Meta XML as per CEOS ARD NRB PFS specifications
Product_TILE_ID_browse.geo.png	Decimated Tile Browse Geo png in gray scale
Product_TILE_ID_browse_rgb.geo.png	Decimated Tile Browse Geo png in rgb
Product_TILE_ID.kmz	Tile Google Earth kmz file

Specifications 1° X 1° Tiles for EOS-04 India Mosaic ARD Product	
Total No. of Tiles (India Mosaic Product) per cycle (17 days)	809
Layers per Tile Product	6 : HH-HV RTC Gamma0, LIA, Area, Mask, Date
Node/Look	Descending/Right
Tile Spacing (Geographic Lat-Lon)	=0.0001636125° (for 18 m pixel size)
Volume per Tile Product	314 MB
Format of tile Product	Cloud Optimized GeoTIFF (COG)
Gamma0, Mask, Date	Unsigned Short Int 16
Area , LIA	Float32
Products Repository	
https://bhoonidhi.nrsc.gov.in	