INSAT-3D Data Products Types and Processing Levels

INSAT-3D Imager HDF5 Products

S. No.	Data Product	Code	Resolution	Remarks
Standard Products **Processing Level: L1B/L1C**				
1	Standard Full Disk Product (L1B)	STD	VIS/SWIR: 1 Km at TIR1, TIR2, MIR: 4 Km WV: 8 Km (at Nadir)	Per Pixel Latitude & Longitude as viewed by Satellite
2	Standard Sector Product (L1C)	Sector mnemonic	4 Km	Map Projected
Geo-Physical Parameters (Per Pixel) **Processing Level: L2B**				
1	Outgoing Longwave radiation	OLR	8 Km at Nadir	Per Pixel Latitude & Longitude as viewed by Satellite
2	Rainfall (Hydro Estimator)	HEM		
3	Sea Surface Temperature	SST		
4	Cloud Mask	CMK		
5	Upper Troposphere Humidity	UTH	4 Km at Nadir	
Geo-Physical Parameters (Point) **Processing Level: L2P**				
1	TIR1 Winds	IRW	Derived from 4 Km resolution data	Point Data
2	WV Winds	WVW		
3	VIS Winds	VSW		
4	MIR Winds	MRW		
Geo-Physical Parameters (Gridded) **Processing Level: L2G**				
1	Rainfall (IMSRA Method)	IMR	0.1 deg	Gridded
2	Rainfall (GPI Method)	GPI	0.25 deg	
3	Aerosol Optical Depth	AOD	0.1 deg	
Geo-Physical Parameters (Sector) **Processing Level: L2C**				
1	FOG	FOG	4 km	Map Projected
2	SNOW	SNW	4 km	
Binned Geo-Physical Parameters (Temporally Binned) **Processing Level: L3B/L3G**				
1	Outgoing Longwave radiation	OLR	4 Km at Nadir	Daily, Weekly, Monthly and Yearly
2	Rainfall (Hydro Estimator)	HEM		
3	Sea Surface Temperature	SST		
4	Upper Troposphere Humidity	UTH	8 Km at Nadir	
5	Rainfall (IMSRA Method)	IMR	0.1 deg	
6	Rainfall (GPI Method)	GPI	0.25 deg	

INSAT-3D Imager KML Products

S. No.	Data Product	Code	Resolution	Remarks
Geo-Physical Parameters (Point) **Processing Level: L2P**				
1.	SMOKE	SMK	Derived from 4 Km resolution data	Point
2.	FIRE	FIR		

INSAT-3D Sounder HDF5 Products

S. No.	Data Product	Code	Resolution	Remarks
Standard Products **Processing Level: L1B**				
1	Standard Product	Sector Mnemonic	10 Km at Nadir	Per Pixel Latitude & Longitude as viewed by Satellite
Geo-Physical Parameters **Processing Level: L2B**				
1	**Vertical Profiles** • Mean Surface Pressure • Mean Surface Elevation • Temperature Profiles (Regression Retrieval) • WV Profiles (Regression Retrieval) • Ozone Profile (Regression Retrieval) • Surface Skin Temperature (Regression Retrieval) Temperature Profiles (Physical Retrieval) • WV Profiles (Physical Retrieval) • Surface Skin Temperature (Physical Retrieval) • Total Ozone **Derived products** • Forecast Skin Temperature • Forecast Surface Humidity • Geo Potential Height (at 40 pressure levels) • Total Precipitable Water • Layer-1 (1000-900 hPa) Precipitable Water	Sector Mnemonic	10 Km at Nadir	Profile on 3x3 Pixels (Average)

• Layer-2 (900-700 hPa) Precipitable Water • Layer-1 (700-300 hPa) Precipitable Water • Lifted Index Wind Index Dry Microburst Index • Maximum Vertical Theta-e			

Note:

1. IMAGER Standard Sector (L1C) Products are geo-referenced AOI (Area Of Interest) Products at uniform resolution.
2. Pressure units 'hPa' stands for Hecta Pascal.