	T	T		1					Product	T	
								Data Access	Specificati		
								(Full Data	on		
								Access instructions can	Document / Product		
			Spatial	Spatial	Temporal	Temporal		be found in	User		
	Product Long Name	Subproducts	Extent	Resolution	Extent	Resolution	Latency	Module 4)	Manual	Coordinate Reference System / Grid	References
									https://d2pn		
									8kiwq2w21t .cloudfront.		
					08/21/24 -				net/docume		
					Present				nts/OPERA		
					(For late August and			https://search.eart hdata.nasa.gov/s	DSWx- S1 Product	- Universal Transverse Mercator (Jung et al 2024,	Jung, Jungkyo; Jeong, Seongsu "Product Specification Document
			Near-Global		early			earch/granules?p	Spec v1.0		for Dynamic Surface Water Extent from Sentinel-1 ", Observational
		Lavarda Birana Water	(all landmasses		september not all			=C2949811996- POCLOUD&pg[0]	<u>.0 D-</u> 108761 Re	- Military Grid Reference System. Each tile is	Products for End-Users from Remote Sensing Project. Version 1.0.0, JPL D-108761, Rev A, August 16, 2024,
	Dynamic Surface Water	- Layer 1: Binary Water - Layer 2: Water Classification	excluding		scenes are	Every 6 to		[v]=f&tl=1738273	vA 2024-08	3660 by 3660 pixels (109.8 km by 109.8 km). This means each pixel is 30 meters by 30 meters.	https://d2pn8kiwq2w21t.cloudfront.net/documents/OPERA_DSWx-
DSWx-S1	Extent Sentinel-1	- Layer 3: Confiedence	Antarctica)	30 meters	available	12 days		715.769!3!!	16 .pdf	[Jung et al 2024, p. 3]	S1 Product Spec v1.0.0 D-108761 RevA 2024-08-16 .pdf
		- Layer 1: Water Classification									
		- Layer 2: Binary Water									
		Classification									
		Layer 3: Confidence (CONF) Layer 4: Diagnostic Layer									
		(DIAG)								- "DSWx-HLS tiles are provided over projected	
		Layer 5: Interpretation of Diagnostic Layer into Water								map coordinates aligned with the Military Grid Reference System" (Jones p. 7)	
		Classes (WTR-1)								Reference System (Jones p. 7)	
		- Layer 6: Interpreted Layer								- "Each tile has a ground footprint of 109.8 km x	
		refined using land cover and terrain shadow testing (WTR-2)							https://d2pp	109.8 km divided into 3,660 rows and 3,660 columns with 30 meter pixel spacing in both	
		- Layer 7: Land Cover							8kiwq2w21t	directions. Both the HLS and DSWx-HLS products	s
		Classification (LAND)								include an overlap of 4,900 meteres" (Jones et al	
		- Layer 8: Terrain Shadow Layer (SHAD)				Depends on			net/docume nts/OPERA	p. 7)	Jones, John W.; Shiroma, Gustavo H. X., "Product Specification
		- Layer 9: Input GLS Fmask				HLS.		https://search.eart	DSWx-	- The Military Grid Reference System is a	Document for Dynamic Surface Water Extent from Harmonized
		cloud/cloud-shadow classification (CLOUD)	Near-Global			viewing geometry.	2-4 days, depends on	hdata.nasa.gov/s earch/granules?p	<pre>HLS_Produ ctSpec_v1.</pre>	geographic grid reference system defined using the Universal Transvers Mercator (UTM) for most	Landsat and Sentinel-2", Observational Products for End-Users from Remote Sensing Project. Version 1.0.1, JPL D-107395, Rev
	Dynamic Surface Water	- Layer 10: Digital Elevation	landmasses			Median	NASA HLS	=C2617126679-	0.0_D-	latitudes and the Universal Polar Stereographic	B, July 10, 2024.
2014 111 0	Extent Harmonized Landsat	Model (DEM)	excluding	00	April 2023 -	resolution is	product	POCLOUD&tl=17	107395_Re	(UPS) coordinate systems for polar regions (North	
DSWx-HLS	Sentinel		Antarctica)	30 m	Present	2.9 days	latency	25647299!3!!	vB.pdf	of 84 N and South of 80 S)." (Jones et al, 2024)	HLS_ProductSpec_v1.0.0_D-107395_RevB.pdf_
		-1 day (MCDWD_F1_L3_NRT) -1 day Cloud Shadow mask					<3 hours				
		(MCDWD_F1CS_L3_NRT)					(no later				
		-2 day (MCDWD_F2_L3_NRT)					than 4:30				
		-3 day (MCDWD_F3_L3_NRT)					p,m. local time)				
		For each of the 4 subproducts	Near-Global	0.0020833			(additional				
		above, there are 3 subdatasets (12 total subproducts)	(Non-polar global land	degrees (~232 m at	Beta 2 Release:		2 hours for product to	https://nrt3.modap	MCDWD II		Slayback, Dan. "MODIS NRT Global Flood Product User Guide",
		- Water Counts	areas below	(~232 m at the equator)	Jan 12		appear in	s.eosdis.nasa.gov			Revision D, NASA LANCE, 16 April 2024,
	MODIS CombineD Water	- Valid counts	70 degrees	[Slayback	2023 -		WorldView)	/archive/allData/6	evD.pdf		https://www.earthdata.nasa.gov/s3fs-public/2024-
MCDWD	Detection	- Flood Map	latitude	et al 2022]	Present	1 day	Slayback]	1/	(nasa.gov)		04/MCDWD_UserGuide_RevD.pdf
		- Near Real Time: Gives latest									
		VIIRS acquisition from either					NRT				
		Suomi-NPP, NOAA-20 and					Gloabl: 3				
		NOAA-21 Daily Composite: Composites					hours after an overpass				
		the 2-3 observations made by					arrives .		https://www.		
		VIIRS overpasses					NRT US: 40	1	star.nesdis.		
		5-day composite: Composites all VIIRS acquisitions over a					minutes after an	https://noaa-	noaa.gov/jp ss/docume		
		rolling 5 day window.					overpass	jpss.s3.amazona	nts/ATBD/A		
		Thoro is also a quality fir -					Daily and 5-	ws.com/index.htm I#JPSS Blended	TBD VIIRS Flood Ma		Li, Sanmei, Sun Donglian, "JPSS VIIRS Flood Mapping (VFM) Algoritm Theoretical Basis Document", Version 1.0, June 2021.
		There is also a quality flag detection for NRT, daily	Near-real time		01/20/23 -		day Composite:	Products/VFM 1	pping v1.0.		https://www.star.nesdis.noaa.gov/jpss/documents/ATBD/ATBD VII
VFM (aka VNG Flood)	VIIRS Flood Monitor	composite, and 5-day composite		375 meters		1 day	6 hours	day GLB/	pdf		RS Flood Mapping v1.0.pdf

i				20 meters;							
i				"The							
				dataset was re-projected							
				to the same							
				grid system							
				as the flood							
				map itself,							
				which is the							
		 Observed Flood Extent 		Equi7Grid		- Jan 1			- "The last step resamples the data to the		
		- Observed Water Extent		with a 20m		2015 -			Equi7Grid System at 20 m pixel sampling, using		
		- Exclusion Mask		pixel-	1	December	[bilinear resampling from the Geospatial Data		
		- Likelihood values		sapacing		23, 2021: 6			Abstraction Library (GDAL)" (Matgen 2022).		
		- Advisory Flags		and a	1	days	[Matgen, Patrick, ""Provision of an Automated, Global,	
		- Sentinel-1 Metadata		300km	l	- Dec 23,	[Satellite0based Flood Monitoring Product for the Coperncius	
		- Sentinel-1 Footprint			January 1	2021 -				Emergency Management Service", GFM D6 Product Definition	
		- Affected Population			2015 -	present: 12				Document. Issue 1, Version 1.4. April 20, 2022.	
GFM	Global Flood Monitoring	- Affected Landcover	Global	2022)	Present	days	eodc.eu/	GFM/PDD	https://github.com/TUW-GEO/Equi7Grid)	https://extwiki.eodc.eu/GFM/PDD	