									Product	1	
								Data Access (Full	Specification		
								Data Access (Full	Document /		
				Spatial	Temporal	Temporal		instructions can be	Product User		
	Product Long Name	Subproducts	Spatial Extent		Extent	Resolution	Latency	found in Module 4)	Manual	Coordinate Reference System / Grid	References
	Froduct Long Name	Subproducts	Spatial Exterit	Resolution	EXIGHT	Resolution	Latericy	Tourid III Moddle 4)		Coordinate Reference System / Grid	References
									https://d2pn8ki wg2w21t.cloud		
									front.net/docu		
					08/21/24 -			https://search.earthdat	ments/OPERA		
					Present (For			a.nasa.gov/search/gra	_DSWx-		
					late August			nules?p=C294981199	S1 Product S		Jung, Jungkyo: Jeong, Seongsu "Product Specification Document for Dynamic
			Near-Global (all		and early			6.	pec v1.0.0 D-	- Universal Transverse Mercator (Jung et al 2024, p. 3)	Surface Water Extent from Sentinel-1 ". Observational Products for End-Users
		- Layer 1: Binary Water	landmasses		september not			POCLOUD&pg[0][v]=f	108761 RevA	Military Grid Reference System. Each tile is 3660 by 3660	from Remote Sensing Project. Version 1.0.0, JPL D-108761, Rev A, August 16,
	Dynamic Surface Water Extent	- Layer 2: Water Classification	excluding		all scenes are	Every 6 to 12		&tl=1738273715.769!	2024-08-	pixels (109.8 km by 109.8 km). This means each pixel is 30	2024. https://d2pn8kiwa2w21t.cloudfront.net/documents/OPERA_DSWx-
DSWx-S1	Sentinel-1	- Layer 3: Confiedence	Antarctica)	30 meters	available	days		311	16 .pdf	meters by 30 meters. [Jung et al 2024, p. 3]	S1 Product Spec v1.0.0 D-108761 RevA 2024-08-16 .pdf
DOWN OF	Continue	Edyor G. Connocornos	/ intarolloa)	OU MOLOIO	avanabio	dayo		<u></u>	10ра	mound by do mound, juding of the Ede-1, p. of	01 1 10000
		- Laver 1: Water Classification									
		- Layer 2: Binary Water Classification									
		- Layer 3: Confidence (CONF)								- "DSWx-HLS tiles are provided over projected map	
		- Layer 4: Diagnostic Layer (DIAG)								coordinates aligned with the Military Grid Reference System"	
		- Laver 5: Interpretation of Diagnostic								(Jones p. 7)	
		Layer into Water Classes (WTR-1)								(**************************************	
		- Laver 6: Interpreted Laver refined using								- "Each tile has a ground footprint of 109.8 km x 109.8 km	
		land cover and terrain shadow testing								divided into 3,660 rows and 3,660 columns with 30 meter pixe	
		(WTR-2)							https://d2pn8ki		
		- Laver 7: Land Cover Classification								products include an overlap of 4,900 meteres" (Jones et al p.	
		(LAND)							front.net/docu	7)	
		- Laver 8: Terrain Shadow Laver (SHAD)				Depends on		https://search.earthdat	ments/OPERA	''	Jones, John W.; Shiroma, Gustavo H. X., "Product Specification Document for
		- Layer 9: Input GLS Fmask cloud/cloud-				HLS viewing		a.nasa.gov/search/gra	DSWx-	- The Military Grid Reference System is a geographic grid	Dynamic Surface Water Extent from Harmonized Landsat and Sentinel-2",
		shadow classification (CLOUD)	Near-Global (all			geometry.	2-4 days,	nules?p=C261712667	HLS_ProductS	reference system defined using the Universal Transvers	Observational Products for End-Users from Remote Sensing Project. Version
		- Layer 10: Digital Elevation Model	landmasses			Median	depends on	9-	pec_v1.0.0_D-	Mercator (UTM) for most latitudes and the Universal Polar	1.0.1, JPL D-107395, Rev B, July 10, 2024.
	Dynamic Surface Water Extent	(DEM)	excluding		April 2023 -	resolution is	NASA HLS	POCLOUD&tl=17256	107395_RevB	Stereographic (UPS) coordinate systems for polar regions	https://d2pn8kiwq2w21t.cloudfront.net/documents/OPERA_DSWx-
DSWx-HLS	Harmonized Landsat Sentinel		Antarctica)	30 m	Present	2.9 days	product latency	47299!3!!	.pdf	(North 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									
		(MCDWD_F1CS_L3_NRT)									
		-2 day (MCDWD_F2_L3_NRT)					<3 hours (no				
		-3 day (MCDWD_F3_L3_NRT)					later than 4:30				
							p,m. local time)				
		For each of the 4 subproducts above,		0.0020833			(additional 2				
		there are 3 subdatasets (12 total		degrees (~232			hours for				
		subproducts)	Near-Global (Non-		Beta 2		product to				
		- Water Counts	polar global land	equator)	Release: Jan		appear in	https://nrt3.modaps.eo			Slayback, Dan. "MODIS NRT Global Flood Product User Guide", Revision D.
		- Valid counts	areas below 70	[Slayback et al			WorldView)[SI	sdis.nasa.gov/archive/	rGuide_RevD.		NASA LANCE, 16 April 2024, https://www.earthdata.nasa.gov/s3fs-public/2024-
MCDWD	MODIS CombineD Water Detection	- Flood Map	degrees latitude	2022]	Present	1 day	ayback]	allData/61/	pdf (nasa.gov)		04/MCDWD UserGuide RevD.pdf
							l				
		- Near Real Time: Gives latest VIIRS					NRT Gloabl: 3				
		acquisition from either Suomi-NPP,					hours after an				
1		NOAA-20 and NOAA-21.				I	overpass	1	1		
1		- Daily Composite: Composites the 2-3				I	arrives NRT US: 40	1			
I	1	observations made by VIIRS overpasses	l			I		l	https://www.sta		
1		 5-day composite: Composites all VIIRS acquisitions over a rolling 5 day window. 				I	minutes after an overpass	https://peop	r.nesdis.noaa. gov/jpss/docu		
1		acquisitions over a rolling 5 day Window.				I	an overpass Daily and 5-	https://noaa- ipss.s3.amazonaws.co	ments/ATBD/A		Li, Sanmei, Sun Donglian, "JPSS VIIRS Flood Mapping (VFM) Algoritm
1		There is also a quality flag detection for				I	day	m/index.html#JPSS_B	TBD VIIRS FI		Theoretical Basis Document", Version 1.0, June 2021.
1			Noor rool time		04/20/22	I		lended Products/VFM		4	Ineoretical Basis Document*, Version 1.0, June 2021. https://www.star.nesdis.noaa.gov/ipss/documents/ATBD/ATBD_VIIRS_Flood_Map
VFM (aka VNG Flood)	VIIRS Flood Monitor	NRT, daily composite, and 5-day composite	Near-real time product	375 meters	01/20/23 - Present	1 day	Composite: 6 hours	1day GLB/	v1.0.pdf		nttps://www.star.nesdis.noaa.gov/jpss/documents/ATBD/ATBD_VIIRS_Flood_Map ping_v1.0.pdf
VI IVI (dka VING FIUUU)	TING FIOOD MICHIGA	composite	product	20 meters:	i ieseiit	1 udy	nodis	Tuay OLD/	v 1.0.pui		ping vi.o.pui
1				"The dataset		I		1	1		
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I	1		l	projected to		I		l	1		
I	1		l	the same grid		I		l	1		
1		- Observed Flood Extent		tne same grid system as the		I		1	1		
1		Observed Flood Extent Observed Water Extent		system as the flood map		I		1	1		
I	1	- Observed water Extent - Exclusion Mask	l	itself, which is		I		l	1	- "The last step resamples the data to the Equi7Grid System a	
		- Exclusion Mask - Likelihood values				- Jan 1 2015 -		1	1	- The last step resamples the data to the Equit Grid System a 20 m pixel sampling, using bilinear resampling from the	<u> </u>
		Likelihood values Advisory Flags		the Equi7Grid with a 20m		 Jan 1 2015 - December 23, 		1	1	20 m pixel sampling, using bilinear resampling from the Geospatial Data Abstraction Library (GDAL)" (Matgen 2022).	
I	1	- Advisory Flags - Sentinel-1 Metadata	l	with a 20m pixel-sapacing		2021: 6 days		l	1	Geospatiai Data Abstraction Library (GDAL) (Matgen 2022).	Matgen, Patrick, "Provision of an Automated, Global, Satellite0based Flood
1		- Sentinel-1 Metadata - Sentinel-1 Footprint		and a 300km		- Dec 23, 2021		1	https://outuilii =	- The Equi7 Coordinate reference system uses an ESPG	Matgen, Patrick, "Provision of an Automated, Global, Satelliteubased Flood Monitoring Product for the Coperncius Emergency Management Service", GFM D6
I	1		l		January 1	- Dec 23, 2021 - present: 12		https://portal.gfm.eodc.			
CEM	Global Flood Monitoring	Affected Population Affected Landcover	Global	gridding"	January 1 2015 - Present			nups://ponal.gim.eodc.	DD	Code of 27701 through 27707 depending on the continent you are on (source: https://qithub.com/TUW-GEO/Equi7Grid)	Product Definition Document. Issue 1, Version 1.4. April 20, 2022. https://extwiki.eodc.eu/GFM/PDD
GFM	Giovai Flood Monitoring	- Arrected Faudcoket	GIODAI	(watgen z022)	ZU10 - Present	uays		ew	שט	you are on (source: https://github.com/10/v/-GEO/Equi/Grid)	https://extwiki.euuc.eu/GFM/PDD