Product Name	Product Long Name	Forecast or Monitoring?	Subproducts	Spatial Extent	Spatial Resolution	Temporal Extent	Temporal Resolution	Latency	GUI Data Access (Full Data Access instructions can be found in Module 5)	API Data Access	Product Specification Document	Product User Manual	Point of Contact
DSWx-S1	**D**ynamic **S**urface **W**ater Ex**t**ent -- Sentinel-1	Monitoring	- Layer 1: Binary Water - Layer 2: Water Classification - Layer 3: Confiedence	Near-Global (all landmasses excluding Antarctica)	30 meters	08/01/24 - Present	Every 6 to 12 days				https://d2pn8kiwq2w21t.cloudfront.net/documents/ProductSpec_DSWX_S1.pdf		
DSWx-HLS	Dynamic Surface Water Extent -- Harmonized Landsat Sentinel	Monitoring	- Layer 1: Water Classification - Layer 2: Binary Water Classification - Layer 3: Confidence (CONF) - Layer 4: Diagnostic Layer (DIAG) - Layer 5: Interpretation of Diagnostic Layer into Water Classes (WTR-1) - Layer 6: Interpreted Layer refined using land cover and terrain shadow testing (WTR-2) - Layer 7: Land Cover Classification (LAND) - Layer 8: Terrain Shadow Layer (SHAD) - Layer 9: Input GLS Fmask cloud/cloud-shadow classification (CLOUD) - Layer 10: Digital Elevation Model (DEM)	Near-Global (all landmasses excluding Antarctica)	30 m	April 2023 - Present	Depends on HLS viewing geometry. Median resolution is 2.9 days	2-4 days, depends on NASA HLS product latency	https://search.earthdata.nasa.gov/search/granules?p=C2617126679-POCLOUD&tl=1725647299!3!!		https://d2pn8kiwq2w21t.cloudfront.net/documents/ProductSpec_DSWX_URS309746.pdf		
MCDWD	**M**ODIS **C**ombine**D** **W**ater **D**etection	Monitoring	-1 day (MCDWD_F1_L3_NRT) -1 day Cloud Shadow mask (MCDWD_F1CS_L3_NRT) -2 day (MCDWD_F2_L3_NRT) -3 day (MCDWD_F3_L3_NRT) For each of the 4 subproducts above, there are 3 subdatasets (12 total subproducts) - Water Counts - Valid counts - Flood Map	Near-Global (Non-polar global land areas below 70 degrees latitude	0.0020833 degrees (~232 m at the equator) [Slayback et al 2022]	Beta 2 Release: Jan 12 2023 - Present	1 day	<3 hours (no later than 4:30 p.m. local time) (additional 2 hours for product to appear in WorldView) [Slayback]	https://nrt3.modaps.eosdis.nasa.gov/archive/allData/61/			MCDWD_UserGuide_RevD.pdf (nasa.gov)	
VFM (aka VNG Flood)	**V**IIRS **F**lood **M**onitor	Monitoring	- Near Real Time: Gives latest VIIRS acquisition from either Suomi-NPP, NOAA-20 and NOAA-21. - Daily Composite: Composites the 2-3 observations made by VIIRS overpasses - 5-day composite: Composites all VIIRS acquisitions over a rolling 5 day window. There is also a quality flag detection for NRT, daily composite, and 5-day composite	Near-real time product	375 meters	01/20/23 - Present	1 day	NRT Gloabl: 3 hours after an overpass arrives NRT US: 40 minutes after an overpass Daily and 5-day Composite: 6 hours	https://noaa-jpss.s3.amazonaws.com/index.html#JPSS_Blended_Products/VFM_1day_GLB/		https://www.star.nesdis.noaa.gov/jpss/documents/ATBD/ATBD_VIIRS_Flood_Mapping_v1.0.pdf		
GFM	**G**lobal **F**lood **M**onitoring	Monitoring	- Observed Flood Extent - Observed Water Extent - Exclusion Mask - Likelihood values - Advisory Flags - Sentinel-1 Metadata - Sentinel-1 Footprint - Affected Population - Affected Landcover	Global	20 meters (pixel size of 10 meters)	January 1 2015 - Present	- Jan 1 2015 - December 23, 2021: 6 days - Dec 23, 2021 - present: 12 days		https://portal.gfm.eodc.eu/	https://extwiki.eodc.eu/GFM/PUM/DataAccess/REST-APIs	https://extwiki.eodc.eu/GFM/PDD	https://extwiki.eodc.eu/GFM/PUM	
GloFAS	**Glo**bal **F**lood **A**wareness **S**ystem	Forecast	Medium Range Flood Forecasts - ensemble real-time daily forecasts - ensemble daily discharge reforecasts - GloFAS hydrological reanalysis - Deterministic Flood thresholds - Deterministic flood thresholds return period discharge levels									https://confluence.ecmwf.int/display/CEMS/GloFAS+User+Guide	
Google Flood Hub	Google Flood Hub	Forecast		Gauge Stations in North America, South America, Europe, Sub-saharan Africa, Western, Central, and South Asia, Australasia									