

***Intra-ACP Climate Service and related applications  
(ClimSA)***

**Climate Station**

**Product Report**

**Version 1.4.0**

***August 2025***

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Abstract / Résumé
This document lists all the products available on Climate Station (or C-Station)

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	Details	Date
Version history		
Version 1.1.0	Initial Release	April 2022
Version 1.1.1	Update for version 1.1.1	July 2022
Version 1.1.2	Update for version 1.1.2	February 2023
Version 1.2.0	Update for version 1.2.0	October 2023
Version 1.2.1	Addition of portfolio for each RCCs/NMHS	February 2024
Version 1.3.0	Addition of new products	June 2024
Version 1.3.1	Addition of new products and processing chains	September 2024
Version 1.3.3	Addition of SPI and Marine products	April 2025
Version 1.4.0	Addition of vegetation products	August 2025

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## ACRONYMS and DEFINITIONS

ACMAD	African Centre of Meteorological Applications for Development
AGRHMET	Centre Régional de Formation et d'Application en Agro météorologie et Hydrologie Opérationnelle
AU	African Union
CAPC-CA	Central Africa Regional Climate Centre
CIMH	Caribbean Institute of Meteorology and Hydrology
EO	Earth Observation
EUMETSAT	European Organisation for the Exploitation of Meteorological Satellites
EUMETCast	EUMETSAT's primary dissemination mechanism for the near real-time delivery of satellite data and products
FTP	File Transfer Protocol
GIS	Geographical Information System
IOC	Indian Ocean Commission
JRC	Joint Research Centre of the European Commission
MOI	Mauritius Oceanography Institute
REC	Regional Economic Communities
RCC	Regional Climate Centre
SADC-CSC	SADC Climate Services Centre
SPREP	Secretariat of Pacific Regional Environment Programme
TA	Technical Assistance
TAT	Technical Assistance Team
ACP	Africa Pacific Caribbean
ECCC	Environment and Climate Change Canada
NCEP	National Centers for Environmental Prediction
MF	Meteo France
UKMO	UK Met Office
JMA	Japan Meteorological Agency
ECMWF	European Centre for Medium-Range Weather Forecasts

## 1. INTRODUCTION

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### 1.1 APPLICABLE AND REFERENCE DOCUMENTS

<b>Id</b>	<b>Title</b>	<b>Date</b>	<b>Reference</b>
AD-1			
AD-2			
AD-3			
AD-4			

**Table 1: Applicable documents**

<b>Id</b>	<b>Title</b>	<b>Date</b>	<b>Reference</b>
RD-1			
RD-2			
RD-3			

**Table 2: Reference documents**

## **1.2 SCOPE OF THE DOCUMENT**

This document describes all EO and Climate products processed and visualized on the Climate Station current release. It is meant mainly for the thematic expert making use of the system.

## 2. DATASETS DISTRIBUTED ON CLIMATE STATION

The following tables contain the products treated on the Climate Station: firstly, the input products are listed, followed by the derived products computed by each processing chain. The reference period for the computation of LTA (Long Term Anomalies) is also indicated: normally, it corresponds to the whole datasets length, and is therefore longer than the temporal extension of time series locally available on the stations.

### 2.1 VEGETATION PRODUCT

The products indicated in grey correspond to previous versions, which are still available on the Climate Station but not automatically activated.

#### 2.1.1 Input products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period <sup>1</sup>	Ref
vgt-ndvi	vgt-pv-olci <sup>2</sup>	ndvi	NDVI from CGLS (1km)	Africa	1999- current	<a href="#">link</a>
	olci-v2.0	ndv	NDVI from CGLS (300m)	Africa, Carribean	2020-current	<a href="#">link</a>
asap-fapar	1.0	fpar, fpard, rfparc, zfpar, zfparc	FAPAR & anomalies from JRC/MARS (500m)	Global	2020-current	<a href="#">link</a>
gdo-fapar	1.0	fparv, fpanv	FAPAR products from VIIRS GDO (10km)	ACP	2025-current	<a href="#">link</a>
wsi-hp	V1.0	pasture, crop	Water Satisfaction Index from JRC/MARS (1km)	Africa	2003-current	<a href="#">link</a>
vgt-dmp	olci-v1.0	dmp	DMP from CGLS (300m)	Africa, Carribean	2021-current	<a href="#">link</a>
vgt-fapar	olci-v1.0	fapar	FAPAR from CGLS (300m)	Africa, Carribean	2021-current	<a href="#">link</a>
vgt-fcover	olci-v1.0	fcover	FCOVER from CGLS (300m)	Africa, Carribean	2021-current	<a href="#">link</a>
vgt-lai	olci-v1.0	lai	LAI from CGLS (300m)	Africa, Carribean	2021-current	<a href="#">link</a>
gdo-rdri	V2.3.2	rdri	Risk of Drought Impacts for Agriculture (1deg)	Global	2010-current	<a href="#">link</a>
s3-ba	V3.1	ba	Daily NRT Burnt Area from CGLS (300m)	Africa, Carribean	2019-present	<a href="#">link</a>

<sup>1</sup> Available period are the one from Climate station reference server.

<sup>2</sup> Since July 2020, the PROBAV platform ended its operations and was replaced by Sentinel-3 products in Copernicus Global Land Service (CGLS). The NDVI vgt-pv-olci version is the temporal composition of VEGETATION, PROBAV and S3-OLCI (see olci-v2.0 below) products into a single timeseries, in order to allow LT anomaly detection.



		ba-month	Monthly NTC Burnt Area from CGLS (300m)	Africa, Carribean	2023-present	<a href="#">link</a>
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## 2.2 INLAND WATER PRODUCTS

The following table describes the 'Inland water' products that are retrieved and ingested in the Climate Station. The reference period for the computation of LTA (Long Term Anomalies) is also indicated: normally, it corresponds to the whole datasets length, and is therefore longer than the temporal extension of timeseries locally available on the stations.

### 2.2.1 Input products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period	Ref
wd-gee	V1.0	occurr	Inland water surface from Landsat – monthly occurrences (30m)	Africa <sup>3</sup>	2019-current	<a href="#">link</a>
		avg	Long Term average occurrences (30m)	Africa	1985-2015(LTA)	

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<sup>3</sup> The product is calculated on a global scale, but distributed only on Africa, divided by region.

## 2.3 RAINFALL PRODUCTS

The following table describes the 'rainfall' monitoring products that are retrieved and ingested in the Climate Station. The reference period for the computation of LTA (Long Term Anomalies) is also indicated: normally, it corresponds to the whole datasets length, and is therefore longer than the temporal extension of timeseries locally available on the stations.

### 2.3.1 Input Products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period	Ref
fewsnet-rfe	2.0	10d	Precipitation estimates over 10 days (8km)	Africa	2001-current	<a href="#">link</a>
tamsat-rfe	3.0	10d	Precipitation estimates over 10 days (4km)	Africa	1983-current	<a href="#">link</a>
	3.1	10d	Precipitation estimates over 10 days (4km)	Africa	1983-current	<a href="#">link</a>
		1d	Precipitation estimates over 1 day (4km)	Africa	2000-current	<a href="#">link</a>
chirps-dekad	2.0	10d	Precipitation estimates over 10 days (0.05deg)	Global	1981-current	<a href="#">link</a>
arc2-rain	2.0	1d	Precipitation estimates from NASA-CPC(1983-Present) (0.1deg)	Africa	1983-current	<a href="#">link</a>
rain-spi	V1.0	spi-1mon	Standard Precipitation Index over 1month from JRC-MARS (0.05deg)	Global	1989-current	<a href="#">link</a>
		spi-3mon	Standard Precipitation Index over 3months from JRC-MARS (0.05deg)	Global	1989-current	<a href="#">link</a>
gdo-spi	1.0	era5-spi-1mon	ERA5 Standard Precipitation Index over 1month, 3months and 6months from JRC Drought Observatory	Global	current	<a href="#">link</a>
		era5-spi-3mon		Global	current	<a href="#">link</a>
		era5-spi-6mon		Global	current	<a href="#">link</a>
era-hourly-tp	1.0	tp	CDS ERA5 Total Precipitation rate hourly (25km)	ACP	Refer CDS	<a href="#">link</a>
cdas-monthly-prcp	1.0	prcp	CDAS Monthly Precipitation (2.5 Degree)	ACP	2019-current	<a href="#">link</a>
gpcc-gpac	V.2022	fg-monthly	GPCC rainfall first guess monthly(1 degree)	Global	2013-current	<a href="#">link</a>

## 2.4 RAINFALL FORECAST PRODUCTS

The following table describes the 'rainfall' forecast products that are retrieved and ingested in the Climate Station.

### 2.4.1 Input products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period	Ref
eccc3-monthly-tp	1.0	tp	Seasonal forecast - Environment and Climate Change Canada system 3 monthly mean of Total Precipitation rate (1 degree)	ACP	Refer CDS	<a href="#">link</a>
ukmo601-monthly-tp	1.0	tp	Seasonal forecast - UK met office system 601 monthly mean of Total Precipitation rate (1 degree)	ACP	Refer CDS	<a href="#">link</a>
mf8-monthly-tp	1.0	tp	Seasonal forecast - Meteo France system 8 monthly mean of Total Precipitation rate (1 degree)	ACP	Refer CDS	<a href="#">link</a>
s51-monthly-tp <sup>4</sup>	1.0	tp	Seasonal forecast - ECMWF system 51 monthly mean of Total Precipitation rate (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		tp-anom	Seasonal forecast - ECMWF system 51 monthly anomaly of Total Precipitation rate (1 degree)	ACP	Refer CDS	<a href="#">link</a>
jma3-monthly-tp	1.0	tp	Seasonal forecast - JMA system 3 monthly mean of Total Precipitation rate (1 degree)	ACP	Refer CDS	<a href="#">link</a>
ncep2-monthly-tp	1.0	tp	Seasonal forecast - NCEP system 2 monthly mean of Total Precipitation rate (1 degree)	ACP	Refer CDS	<a href="#">link</a>
efi-spi	1.0	1month	Wet and Dry Spells 1month forecast (1 degree)	ACP	2023-current	<a href="#">link</a>
		3month	Wet and Dry Spells 3 months forecast (1 degree)	ACP	2023-current	<a href="#">link</a>
		6month	Wet and Dry Spells 6 months forecast (1 degree)	ACP	2023-current	<a href="#">link</a>
s51-subdaily-tp	1.0	tp	Seasonal forecast - ECMWF system 51 subdaily 4 weeks forecast of Total Precipitation rate (1 degree)	ACP	Refer CDS	<a href="#">link</a>

<sup>4</sup> The ECMWF system 5 version was replaced by S51 at the end of 2022. This apply to all S5 products.

## 2.5 FIRE PRODUCTS

The following table describes the 'Fire' products that are retrieved and ingested in the Climate Station. The reference period for the computation of LTA (Long Term Anomalies) is also indicated: normally, it corresponds to the whole datasets length, and is therefore longer then the temporal extension of timeseries locally available on the stations.

### 2.5.1 Input Products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period	Ref
modis-firms	V6.1	1day	Daily Active Fires at 1 km resolution	Africa	2021-current	<a href="#">link</a>

## 2.6 MISCELLANEOUS (MONITORING & FORECAST) PRODUCTS

The following table describes the ‘Miscellaneous’ monitoring and forecast products that are retrieved and ingested in the Climate Station. The reference period for the computation of LTA (Long Term Anomalies) is also indicated: normally, it corresponds to the whole datasets length, and is therefore longer then the temporal extension of time series locally available on the stations.

### 2.6.1 Input Products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period	Ref
ascat-swi	V3.1	swi	Soil Water Index- Every day product (0.1 degree)	Global	2019-2025	<a href="#">link</a>
ascat-swi	V4.0	swi	Soil Water Index- Every day product (0.1 degree)	Global	2025-current	<a href="#">link</a>
cpc-sm	1.0	sm	Soil Moisture – Monthly product (0.5 degree)	Global	2012-current	<a href="#">link</a>
lsaf-et	Undefined	et	Evapotranspiration 30mins product (1km)	MSG-disk	NA	<a href="#">link</a>
lsaf-lst	Undefined	lst	Land Surface temperature 15mins product (1km)	MSG-disk	NA	<a href="#">link</a>
era-hourly-ssrd	1.0	ssrd	ERA5 hourly Surface solar radiation downwards (25km)	ACP	Refer CDS	<a href="#">link</a>
era-hourly-10uwind	1.0	10uwind	ERA5 hourly 10m u component of wind (25km)	ACP	Refer CDS	<a href="#">link</a>
era-hourly-10vwind	1.0	10vwind	ERA5 hourly 10m v component of wind (25km)	ACP	Refer CDS	<a href="#">link</a>
s51-monthly-10mws	1.0	10mws	Seasonal forecast - ECMWF system 51 - monthly mean of 10m Wind Speed (1 degree)	ACP	Refer CDS	<a href="#">link</a>
s51-monthly-mslp	1.0	mslp	Seasonal forecast - ECMWF system 51 - monthly mean of Mean sea level pressure (1 degree)	ACP	Refer CDS	<a href="#">link</a>
s51-monthly-ssrd	1.0	ssrd	Seasonal forecast - ECMWF system 51 - monthly mean of Surface solar radiation downwards (1 degree)	ACP	Refer CDS	<a href="#">link</a>
gdo-tws	V1.1.0	twsan	GRACE Total Water Storage Anomaly (1deg)	Global	2002-current	<a href="#">link</a>
gdo-sma	V3.0.1	sma	Ensemble Soil Moisture Anomaly (0.1 degree)	Global	2023-current	<a href="#">link</a>
cdas-dekad-mslp	1.0	mslp	NCEP-NCAR CDAS dekad Mean Sea level Pressure (2.5 deg)	ACP	1991-current	<a href="#">link</a>
cdas-dekad-geopt	1.0	geopt-500	NCEP-NCAR CDAS dekad Geopotential height data @ 500 hPa (2.5 deg)	ACP	1991-current	<a href="#">link</a>

cdas-dekad-rhum	1.0	rhum-700, rhum-850	NCEP-NCAR CDAS dekad Relative humidity data @ 700 & 850 hPa (2.5 deg)	ACP	1991-current	<a href="#">link</a>
cdas-dekad-vwind	1.0	vwind-200, vwind-700, vwind-850, vwind -925	NCEP-NCAR CDAS dekad V:meridional wind data @ 200, 700, 850 & 925 hPa (2.5 deg)	ACP	1991-current	<a href="#">link</a>
cdas-dekad-uwind	1.0	uwind-200, uwind-700, uwind-850, uwind -925	NCEP-NCAR CDAS dekad U: Zonal wind data @ 200, 700, 850 & 925 hPa (2.5 deg)	ACP	1991-current	<a href="#">link</a>
era5-hourly-mslp	1.0	mslp	ERA5 hourly Mean Sea level Pressure (25km)	ACP	1991-current	<a href="#">link</a>
era5-hourly-geopt	1.0	geopt-500	ERA5 hourly Geopotential height data @ 500 hPa (25km)	ACP	1991-current	<a href="#">link</a>
era5-hourly-rhum	1.0	rhum-700, rhum-850	ERA5 hourly Relative humidity data @ 700 & 850 hPa (25km)	ACP	1991-current	<a href="#">link</a>
era5-hourly-vwind	1.0	vwind-200, vwind-700, vwind-850, vwind -925	ERA5 hourly V:meridional wind data @ 200, 700, 850 & 925 hPa (25km)	ACP	1991-current	<a href="#">link</a>
era5-hourly-uwind	1.0	uwind-200, uwind-700, uwind-850, uwind -925	ERA5 hourly U: Zonal wind data @ 200, 700, 850 & 925 hPa (25km)	ACP	1991-current	<a href="#">link</a>

## 2.7 MARINE PRODUCTS

The following table describes the 'Marine' monitoring and forecast products that are retrieved and ingested in the Climate Station. The reference period for the computation of LTA (Long Term Anomalies) is also indicated: normally, it corresponds to the whole datasets length, and is therefore longer than the temporal extension of time series locally available on the stations.

### 2.7.1 Input Products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period	Ref
modis-sst	v2019.0	sst-day	Ingested daily Sea Surface temperature SST (4km)	Global	2003-current	<a href="#">link</a>
modis-chla	v2022.0	chl-day	Ingested daily Chlorophyll a (4km)	Global	2003-current	<a href="#">link</a>
modis-par	v2022.0	par-day	Ingested daily Photo synthetically Available Radiation - PAR (4km)	Global	2003-current	<a href="#">link</a>
modis-kd490	v2022.0	kd490-day	Ingested daily Diffuse attenuation coefficient for down welling irradiance at 490 nm - KD490 (4km)	Global	2003-current	<a href="#">link</a>
pml-modis	3.0	Chla-3days, sst-3day	Ingested SST and Chla (1km)	Region	2015-2023	<a href="#">link</a>
olci-wrr	V02.0	chl-oc4me-s3a, chl-oc4me-s3b	Chlorophyll-a computed with oc4me algo (4km)	Global	NA	<a href="#">link</a>
		chl-oc4me-s3ab	Chlorophyll-a computed with oc4me algo (4km) from both S3A&B	Global	NA	<a href="#">link</a>
		gradient-s3ab	Chlorophyll-a gradient (4km) from both S3A&B	Global	NA	<a href="#">link</a>
slstr-sst	1.0	wst	Sea Surface Temperature (1km)	Africa	NA	<a href="#">link</a>
era-hourly-sst	1.0	sst	ERA5 Sea Surface Temperature hourly (25km)	ACP	Refer CDS	<a href="#">link</a>
era-monthly-sst	1.0	sst	ERA5 Sea Surface Temperature Monthly (25km)	ACP	Refer CDS	<a href="#">link</a>
s51-monthly-sst	1.0	sst	Seasonal forecast 51 ensemble monthly mean of Sea Surface temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		sst-anom	Seasonal forecast 51 monthly anomaly of Sea Surface temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
cmems-phy	1.0		3D global ocean forecasts updated daily.(4km)	ACP	Refer CMEMS	<a href="#">link</a>

## 2.8 TEMPERATURE MONITORING PRODUCTS

The following table describes the 'Temperature' monitoring products that are retrieved and ingested in the Climate Station.

### 2.8.1 Input Products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period	Ref
era-hourly-2mt	1.0	2mt	ERA5 2 meter temperature hourly (25km)	ACP	Refer CDS	<a href="#">link</a>
		2mtmax	ERA5 Hourly maximum 2m temperature since previous post processing (25km)	ACP	Refer CDS	<a href="#">link</a>
		2mtmin	ERA5 Hourly minimum 2m temperature since previous post processing (25km)	ACP	Refer CDS	<a href="#">link</a>
era-monthly-2mt	1.0	2mt	ERA5 2 meter temperature monthly (25km)	ACP	Refer CDS	<a href="#">link</a>
era-hourly-2mdw	1.0	2mdw	ERA5 2 meter dew point temperature hourly (25km)	ACP	Refer CDS	<a href="#">link</a>
cdas-daily-temperature	1.0	tmax	Gridded daily temperature max (0.5 degree)	ACP	2020-current	<a href="#">link</a>
		tmin	Gridded daily temperature min (0.5 degree)	ACP	2020-current	<a href="#">link</a>
cdas-month-temperature	1.0	temp	Gridded monthly temperature (0.5 degree)	ACP	2020-current	<a href="#">link</a>
		tanom	Gridded temperature monthly anomaly (0.5 degree)	ACP	2020-current	<a href="#">link</a>



## 2.9 TEMPERATURE FORECAST PRODUCTS

The following table describes the 'Temperature' forecast products that are retrieved and ingested in the Climate Station.

### 2.9.1 Input products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period	Ref
s51-monthly-2mt	1.0	2mt	Seasonal forecast - ECMWF system 51 - monthly mean of 2 meter temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmax	Seasonal forecast - ECMWF system 51 - monthly mean of 2 meter temperature maximum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmin	Seasonal forecast - ECMWF system 51 - monthly mean of 2 meter temperature minimum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mt-anom	Seasonal forecast - ECMWF system 51 - monthly anomaly of 2 meter temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
ecc3-monthly-2mt	1.0	2mt	Seasonal forecast - Environment and Climate Change Canada(ECCC) system 3 - monthly mean of 2 meter temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmax	Seasonal forecast - ECCC system 3 - monthly mean of 2 meter temperature maximum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmin	Seasonal forecast - ECCC system 3 - monthly mean of 2 meter temperature minimum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
mf8-monthly-2mt	1.0	2mt	Seasonal forecast – Meteo France (MF) system 8 - monthly mean of 2 meter temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmax	Seasonal forecast – Meteo France (MF) system 8 - monthly mean of 2 meter temperature maximum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmin	Seasonal forecast – Meteo France (MF) system 8 - monthly mean of 2 meter temperature minimum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
ukmo601-monthly-2mt	1.0	2mt	Seasonal forecast – UK Met Office (UKMO) system 601 - monthly mean of 2 meter temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmax	Seasonal forecast – UK Met Office (UKMO) system 601 - monthly mean of 2 meter temperature maximum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>

		2mtmin	Seasonal forecast – UK Met Office (UKMO) system 601 - monthly mean of 2 meter temperature minimum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
s51-monthly-2mdw	1.0	2mdw	Seasonal forecast ECMWF system 51 - monthly mean of 2 meter dew point temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
s51-subdaily-2mdw	1.0	2mdw	Seasonal forecast ECMWF system 51 - subdaily 4 weeks forecast of 2m dew point temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
s51-subdaily-2mt	1.0	2mt	Seasonal forecast ECMWF system 51 - subdaily 4 weeks forecast of 2m temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmax	Seasonal forecast ECMWF system 51 - subdaily 4 weeks forecast of 2m temperature maximum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmin	Seasonal forecast ECMWF system 51 - subdaily 4 weeks forecast of 2m temperature minimum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
ncep2-monthly-2mt	1.0	2mt	Seasonal forecast – NCEP system 2 - monthly mean of 2 meter temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmax	Seasonal forecast – NCEP system 2 - monthly mean of 2 meter temperature maximum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmin	Seasonal forecast – NCEP system 2 - monthly mean of 2 meter temperature minimum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
jma3-monthly-2mt	1.0	2mt	Seasonal forecast – JMA system 3 - monthly mean of 2 meter temperature (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmax	Seasonal forecast – JMA system 3 - monthly mean of 2 meter temperature maximum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>
		2mtmin	Seasonal forecast – JMA system 3 - monthly mean of 2 meter temperature minimum in the last 24 hours (1 degree)	ACP	Refer CDS	<a href="#">link</a>

## 2.10 ATMOSPHERE PRODUCTS

The following table describes the 'Atmosphere' observation and forecast products that are retrieved and ingested in the Climate Station.

### 2.10.1 Input products

Product code	Version	Ingested sub-product	Description	Coverage	Available Period	Ref
cams-bcaod550	1.0	subdaily	CAMS subdaily forecast of Black Carbon Aerosol Optical Depth at 550nm	ACP	Refer ADS	<a href="#">link</a>
		daily <sup>5</sup>	CAMS daily observation of Black Carbon Aerosol Optical Depth at 550nm	ACP	Refer ADS	<a href="#">link</a>
		monthly <sup>9</sup>	CAMS monthly Black Carbon Aerosol Optical Depth at 550nm	ACP	Refer ADS	<a href="#">link</a>
cams-duaod550	1.0	subdaily	CAMS subdaily forecast of Dust aerosol optical depth at 550 nm	ACP	Refer ADS	<a href="#">link</a>
		daily <sup>9</sup>	CAMS daily observation of Dust aerosol optical depth at 550 nm	ACP	Refer ADS	<a href="#">link</a>
		monthly <sup>9</sup>	CAMS monthly Dust aerosol optical depth at 550 nm	ACP	Refer ADS	<a href="#">link</a>
cams-omaod550	1.0	subdaily	CAMS subdaily forecast of Organic matter aerosol optical depth at 550 nm	ACP	Refer ADS	<a href="#">link</a>
		daily <sup>9</sup>	CAMS daily observation of Organic matter aerosol optical depth at 550 nm	ACP	Refer ADS	<a href="#">link</a>
		monthly <sup>9</sup>	CAMS monthly Organic matter aerosol optical depth at 550 nm	ACP	Refer ADS	<a href="#">link</a>
cams-pm10	1.0	subdaily	CAMS subdaily forecast of Particulate Matter 10um	ACP	Refer ADS	<a href="#">link</a>
		daily <sup>9</sup>	CAMS daily observation of Particulate Matter 10um	ACP	Refer ADS	<a href="#">link</a>
		monthly <sup>9</sup>	CAMS monthly Particulate Matter 10um	ACP	Refer ADS	<a href="#">link</a>
cams-pm2p5	1.0	subdaily	CAMS subdaily forecast of Particulate Matter 2.5um	ACP	Refer ADS	<a href="#">link</a>
		daily <sup>9</sup>	CAMS daily observation of Particulate Matter 2.5um	ACP	Refer ADS	<a href="#">link</a>
		monthly <sup>9</sup>	CAMS monthly Particulate Matter 2.5um	ACP	Refer ADS	<a href="#">link</a>
cams-aod550	1.0	subdaily	CAMS subdaily forecast of Total aerosol optical depth at 550 nm	ACP	Refer ADS	<a href="#">link</a>
		daily <sup>9</sup>	CAMS daily observation of Total aerosol optical depth at 550 nm	ACP	Refer ADS	<a href="#">link</a>
		monthly <sup>9</sup>	CAMS monthly Total aerosol optical depth at 550 nm	ACP	Refer ADS	<a href="#">link</a>

<sup>5</sup> These products are updated twice a year with 4-6month delay.

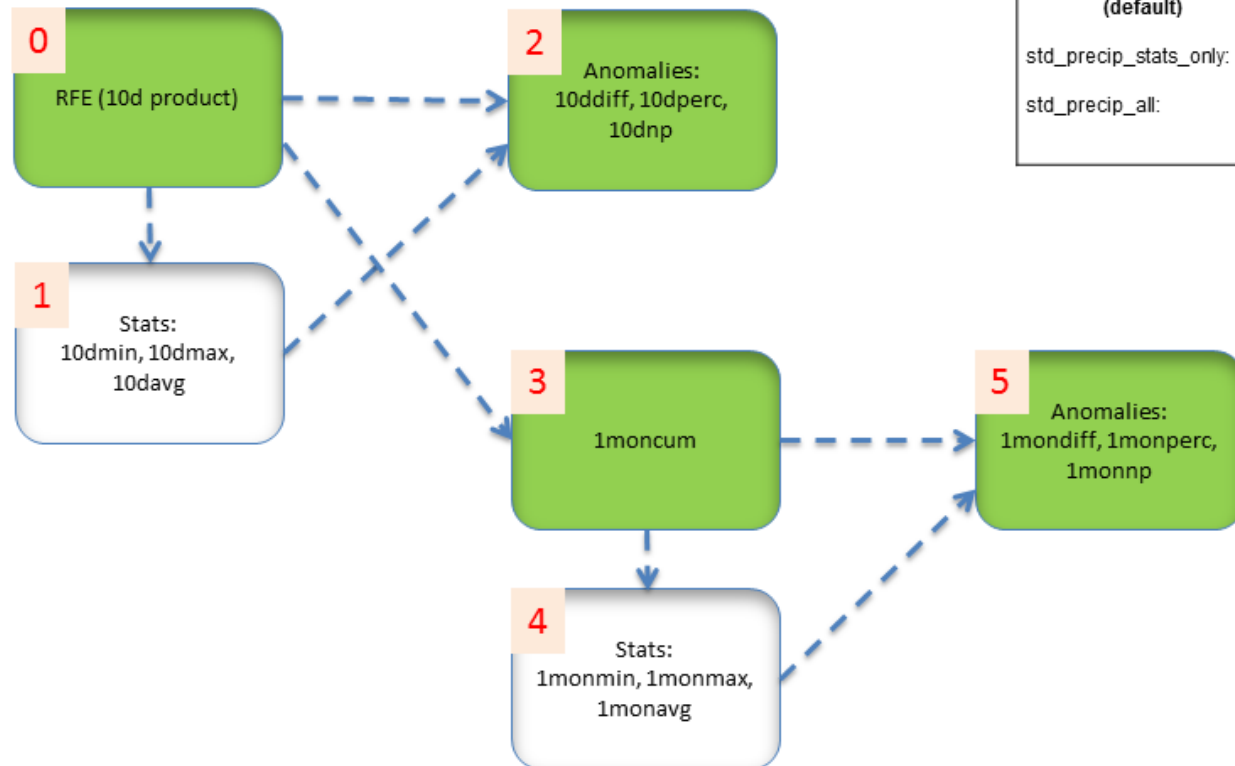
### 3. DESCRIPTION OF THE PROCESSING CHAINS

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The current paragraph presents in a graphic manner how the ‘derived’ products are computed in the processing chains, available in this release, according to the following conventions:

- The ‘entry’ point of the processing chain is displayed at the top-left corner, and indicated with the number **0**. It is normally an ingested product.
- Every group of derived products is indicated with an increasing number, according to the order of the computation.
- Some processing chains can be called with an option, which activates/deactivates some steps. When the steps are de-activated, the corresponding outputs are not updated (e.g. long-term statistics).
- The options are indicated in a table, together with the products the chain is applied to (non-exhaustive list). The default option is also indicated, for which the active computational steps are indicated in green in the diagram.

## Processing chain: std\_precip

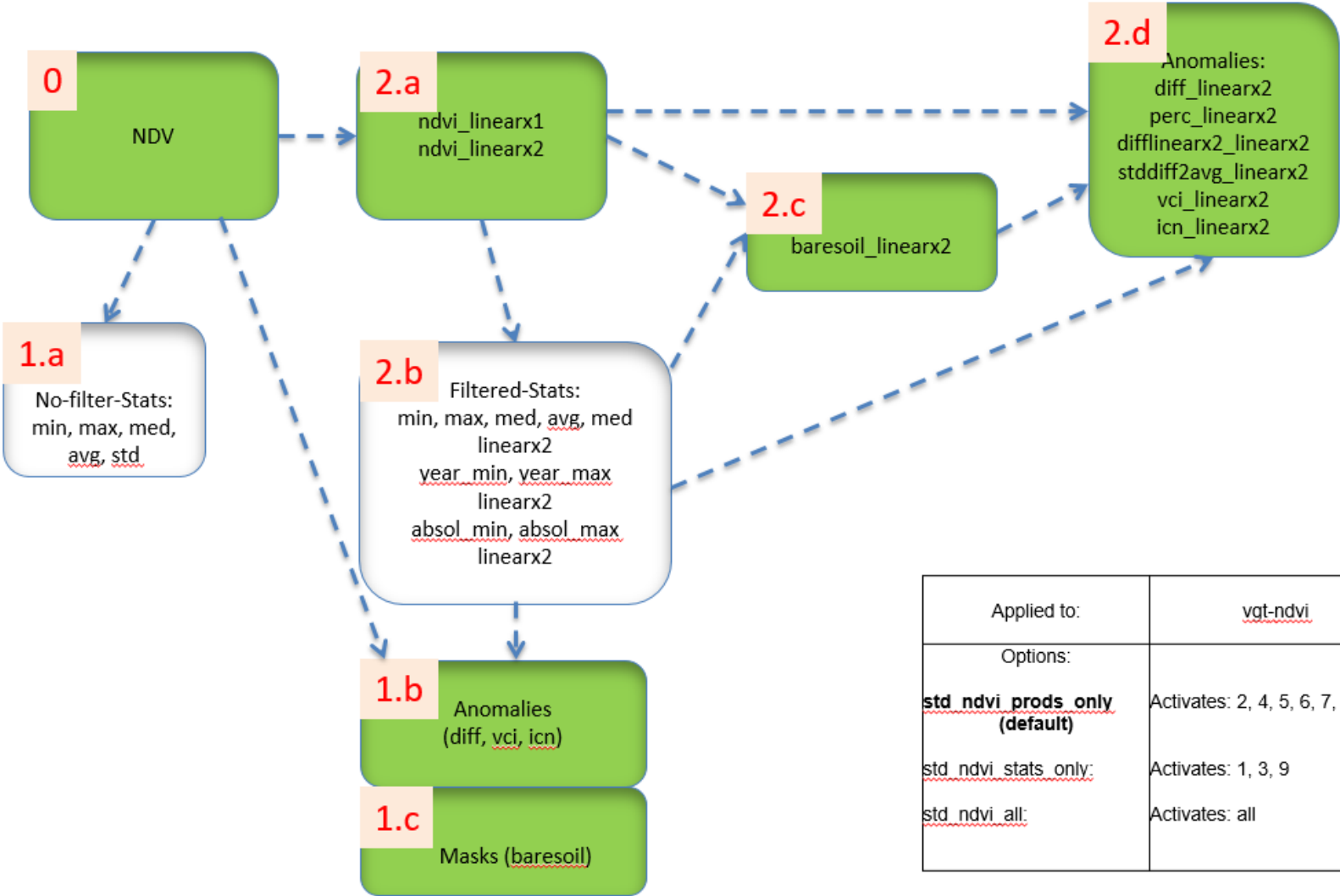


Applied to:	FEWSNET TAMSAT CHIRPS
Options:	
std_precip_prods_only (default)	Activates: 2, 3 and 5
std_precip_stats_only:	Activates: 1 and 4
std_precip_all:	Activates: all

Processing chain: Standard Precipitation processing chain (**std\_precip**)  
Applied to: fewsnet-rfe, tamsat-rfe, chirps-dekad

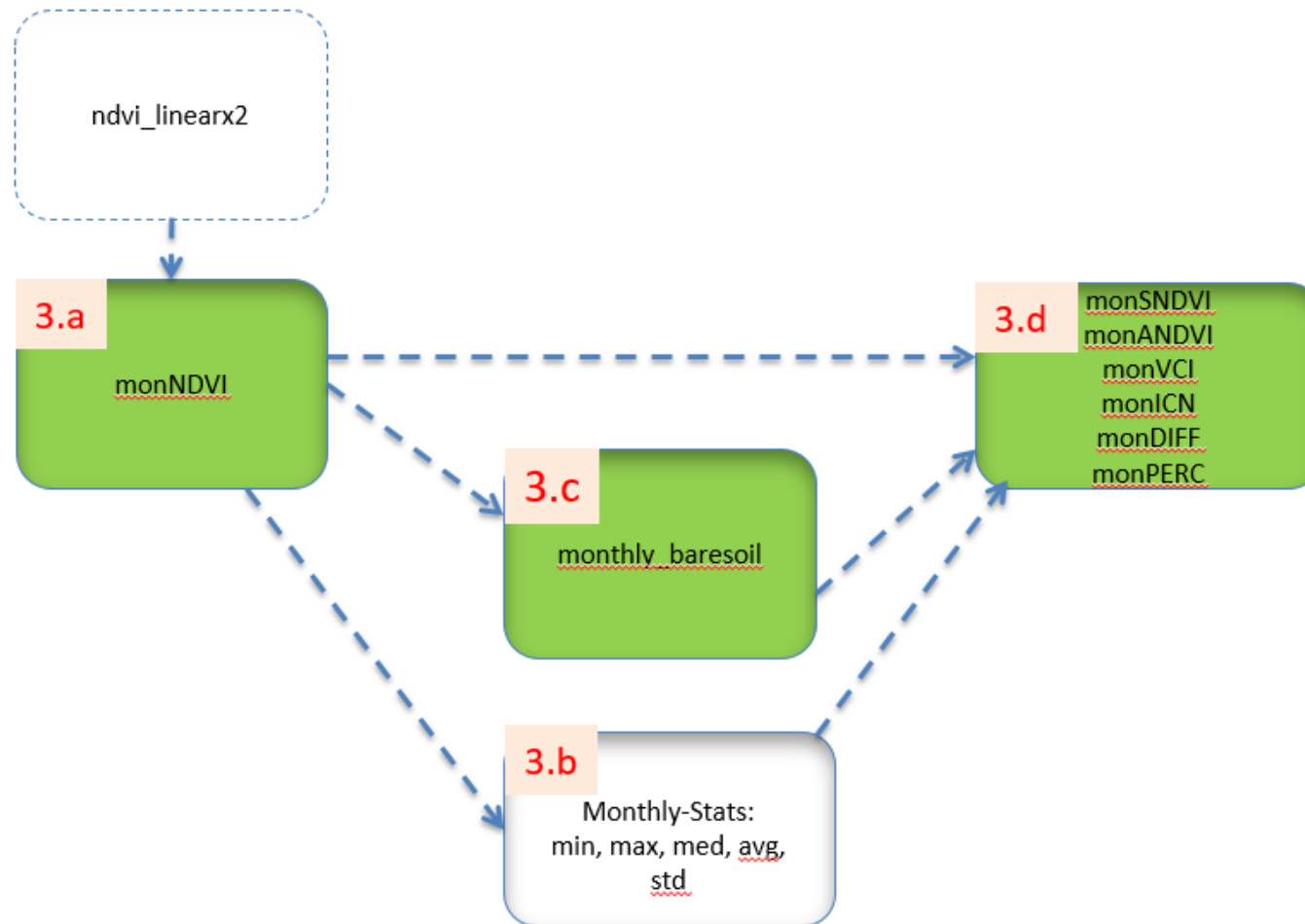
10davg	Statistic: multi-years average for each dekad
10dmin	Statistic: multi-years minimum for each dekad
10dmax	Statistic: multi-years maximum for each dekad
10ddiff	Anomaly: ABSOLUTE DIFFERENCE (10d – 10davg)
10dperc	Anomaly: RELATIVE DIFFERENCE % ((10d – 10davg)/10davg) (Computed only when LTA > 7mm)
10dnp	Anomaly: Normalized Precipitation (10d- 10dmin)/(10dmax-10dmin) (Computed only when LTA > 7mm)
10dratio	Anomaly: Precipitation Ratio 100*(10d/10davg)
1moncum	Cumulated 10day RFE over each month
1monavg	Statistic: multi-years average for each month
1monmin	Statistic: multi-years minimum for each month
1monmax	Statistic: multi-years maximum for each month
1mondif	Anomaly: ABSOLUTE DIFFERENCE (1moncum-1monavg)
1monperc	Anomaly: RELATIVE DIFFERENCE (1moncum-1monavg)/1monavg (Computed only when LTA > 20mm)
1monnp	Anomaly: Normalized Precipitation (1moncum- 1monmin)/(1monmax-1monmin) (Computed only when LTA > 20mm)

Processing chain: std\_ndvi



Applied to:	<u>vgt-ndvi</u>
Options:	
<u>std ndvi prods only (default)</u>	Activates: 2, 4, 5, 6, 7, 8, 10
<u>std ndvi stats only:</u>	Activates: 1, 3, 9
<u>std ndvi all:</u>	Activates: all

## Processing chain: std\_ndvi (continued)





Derived products

Processing chain:

Standard Precipitation processing chain for VGT NDVI (**std\_vgt\_ndvi**)

Applied to:

vgt-ndvi

ndvi-linearx2	Filtered NDVI (linear filtering applied twice)
10davg-linearx2	Statistic: AVG of ndvi-linearx2
10dmin-linearx2	Statistic: MIN of ndvi-linearx2
10dmax-linearx2	Statistic: MAX of ndvi-linearx2
10dmed-linearx2	Statistic: MED of ndvi-linearx2
10dstd-linearx2	Statistic: STD of ndvi-linearx2
10ddiff-linearx2	Anomaly: DIF of ndvi-linearx2
10dsndvi-linearx2	Anomaly: SNDVI of ndvi-linearx2 (aka z-score)
10dperc-linearx2	Anomaly: PERC difference of ndvi-linearx2 ( $100 * (\text{curr-LTA}) / \text{LTA}$ )
linearx2diff-linearx2	Anomaly: Absolute Difference (ndvi-linearx2 -10davg-linearx2)
vci-linearx2	Anomaly: VCI (linearx2 vs. linearx2 statistics)
icn-linearx2	Anomaly: ICN (linearx2 vs. linearx2 statistics)
ratio-linearx2	Anomaly: Ratio ( $100 * \text{ndvi-linearx2} / 10\text{davg-linearx2}$ )
monndvi	Indicator: monthly NDVI (from ndvi-linearx2)
1monavg	Statistic: monthly multi-year average NDVI
1monmin	Statistic: monthly multi-year min NDVI
1monmax	Statistic: monthly multi-year max NDVI
1monicn	Statistic: monthly ICN NDVI
1monvci	Statistic: monthly VCI NDVI
1monstd	Statistic: monthly std NDVI
1mondiff	Anomaly: monthly diff NDVI
1monperc	Anomaly: monthly perc NDVI
1monsndvi	Anomaly: monthly SNDVI (aka z-score)
monthly-ratio	Anomaly: monthly ratio

## Processing chain: std\_lsasaf\_et



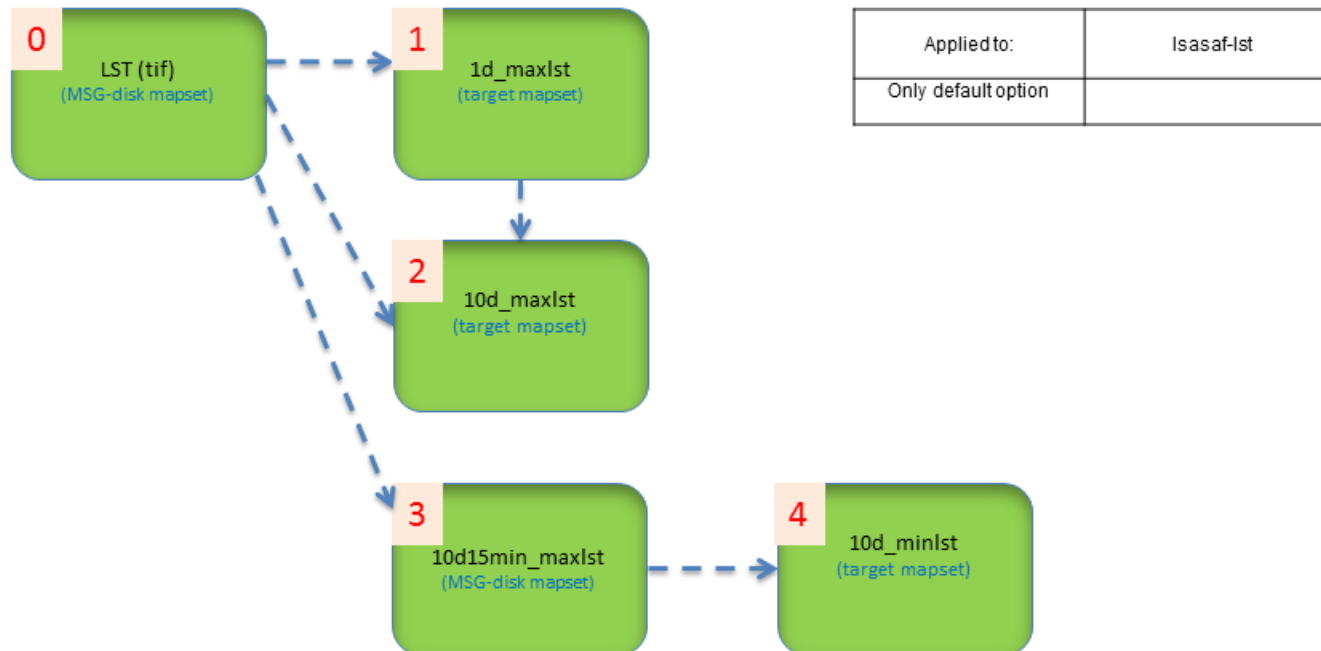
Applied to:	Isasaf-et
Only default option	
Notes:	10d and 1mon stats and anomalies to be added

Processing chain: Standard Processing chain for LSASAF ET related products (**std\_lsasaf\_et**)

Applied to: Isasaf-et

10d30min <sup>2</sup>	Statistics (30min average over 10 days)	MSG-disk
10dcum	Indicator: ET cumulated over 10 days	Africa
1moncum	Indicator: ET cumulated over 1 month	Africa

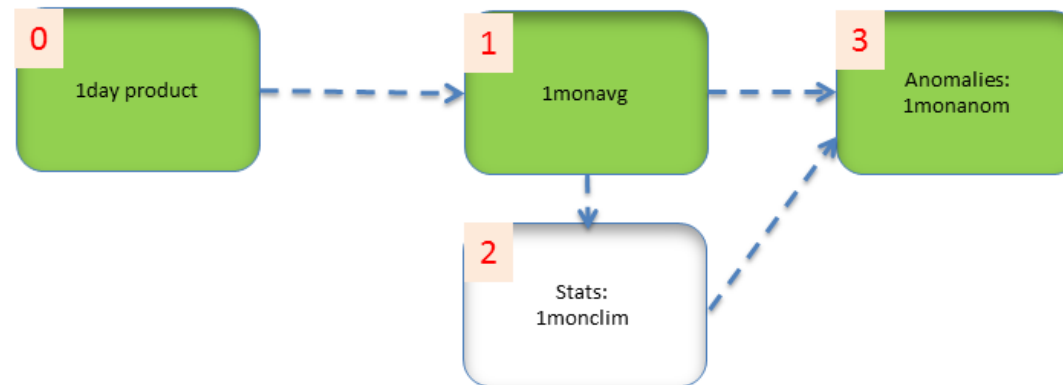
## Processing chain: std\_Isasaf\_lst



Processing chain: Standard Processing chain for LSASAF LST related products (std\_Isasaf\_lst)

Applied to: Isasaf-lst

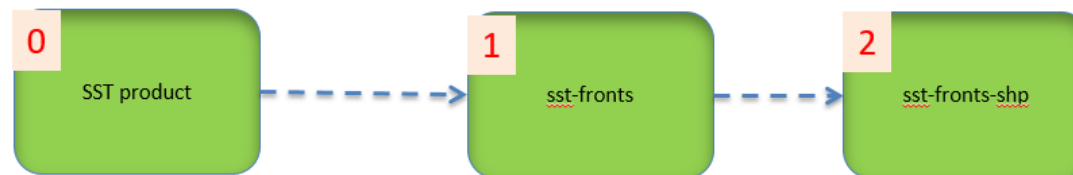
10d15min <sup>2</sup>	Statistics (15min max over 10 days)	MSG-disk
1dmax	Indicator: LST maximum over 1 day	Africa
10dmax	Indicator: LST maximum over 10 days	Africa
10dmin	Indicator: LST minimum over 10 days	Africa



Applied to:	modis-chla modis-sst modis-kd490 modis-par
Only default option	
Notes:	The computation of 1monclim is done once for all (no updated)

Processing chain: Standard Processing chain for MODIS monthly average computation (**std\_modis\_derived**)  
 Applied to: modis-chla, modis-sst, modis-par, modis-kd490

8daysavg	8 days Average
monavg	Monthly average
monclim	Monthly Climatology
monanom	Monthly Anomaly (monthly - climatology)



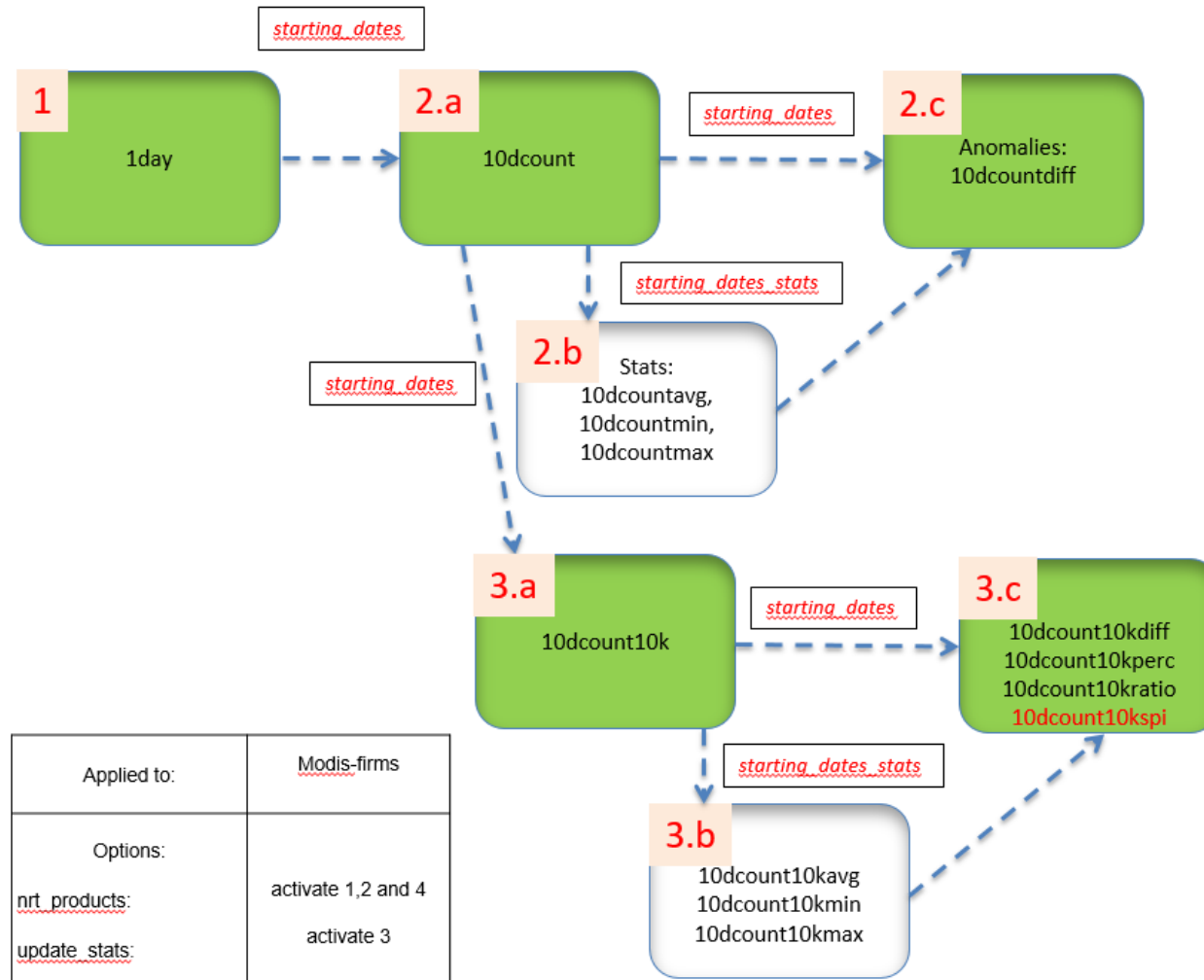
Applied to:	<u>modis-sst</u> <u>pml-modis-sst</u> <u>slstr-sst</u>
Only default option	

Processing chain: Proc library based processing chain for front's computation (**proc\_fronts**)  
 Applied to: pml-modis-sst, slstr-sst

sst-fronts	Fronts of Sea Surface Temperature
sst-fronts-shp <sup>6</sup>	Fronts of SST in shapefile format

<sup>6</sup> On top of the GeoTiff file (sst-fronts) this product is created for usage in QGIS or other applications (it is not visualized by Climate Station viewer).

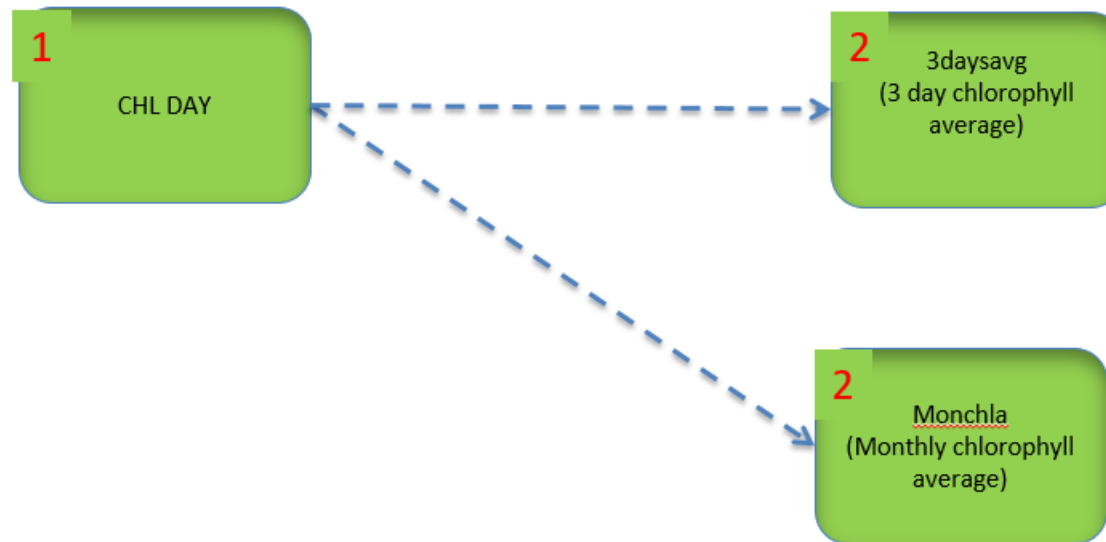
## Processing chain: std\_modis\_firms



Processing chain: Processing chain of standard MODIS FIRMS products (**std\_modis\_firms**)  
Applied to: modis-firms

10dcount	Number of fires over 10 day period
10dcountavg	Multi-years average number of 10dcount
10dcountmin	Multi-years minimum number of 10dcount
10dcountmax	Multi-years maximum number of 10dcount
10dcountdiff	Difference between 10dcount and 10dcountavg
10dcount10K	Number of fires over 10 day period over 10 Km grids
10dcount10Kavg	Multi-years average number of 10dcount over 10 Km grids
10dcount10Kmin	Multi-years minimum number of 10dcount over 10 Km grids
10dcount10Kmax	Multi-years maximum number of 10dcount over 10 Km grids
10dcount10Kdiff	Difference between 10dcount and 10dcountavg over 10 Km grids
10dcount10Kratio	Ratio between 10dcount and 10dcountavg over 10 Km grids

## Processing chain: std\_olci\_wrr



Processing chain: Standard Processing chain for 3day average, monthly average products computation (std\_olci\_wrr)  
Applied to: slstr-sst, olci-wrr

3daysavg	3day average Product
monavg	Monthly average product



### Processing chain: std\_gradient



### Processing chain: std\_monavg



### Processing chain: std\_3dayavg



Processing chain: Proc library based Processing chain for gradient computation (**proc\_gradient**)  
Applied to: modis-chla, slstr-sst, olci-wrr

gradient	Horizontal Gradient for chlorophyll and sea surface temperature.
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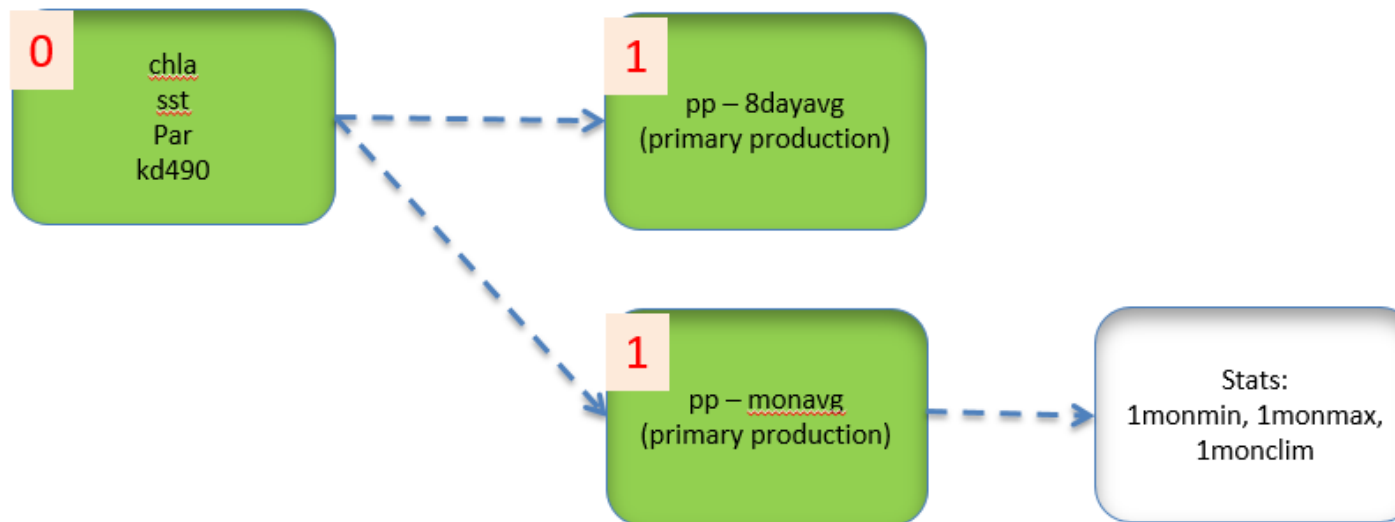
Processing chain: Standard Processing chain for monthly average computation from daily products (**std\_monavg**)  
Applied to: slstr-sst, olci-wrr

monavg	Monthly averaged for sst or chla
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Processing chain: Standard Processing chain for monthly average computation from daily products (**std\_3dayavg**)  
Applied to: slstr-sst

3dayavg	Three day averaged for sst or chla
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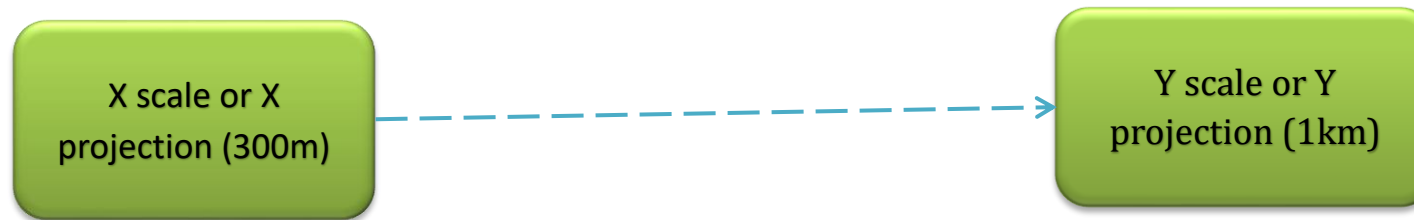
## Processing chain: modis\_pp



Processing chain: Non Standard Processing chain for Primary production computation (**modis\_pp**)  
Applied to: modis-chla, modis-sst, modis-par, modis-kd490 are the 4 inputs for computing PP

8daysavg	Average Primary production over 8 days
monavg	Monthly average primary production

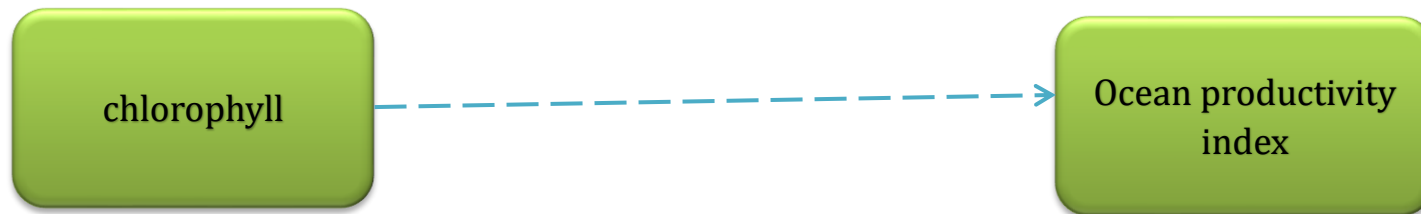
## Processing chain: std\_reproject



Processing chain: Standard Processing chain to convert to one resolution, one projection from existing resolution and projection (**std\_reproject**)  
Applied to: vgt-ndvi

ndvi	Reprojected data from 300m to 1km
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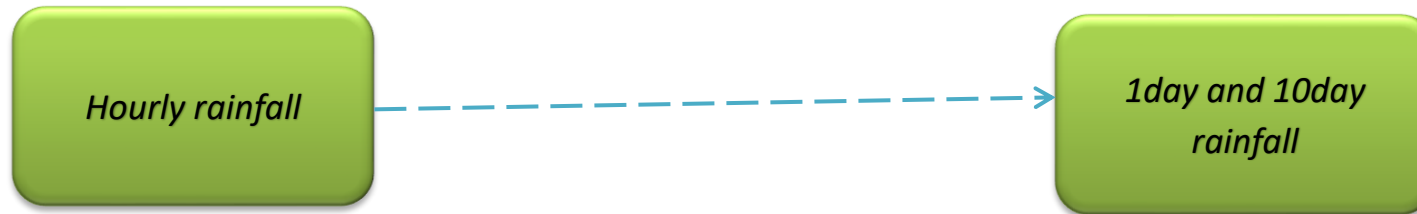
## Processing chain: std\_opfish



Processing chain: Standard Processing chain to generate Ocean productivity index from chlorophyll (**std\_opfish**)  
Applied to: modis-chla

opfish	Ocean productivity index from Modis chlorophyll data
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*Processing chain: proc\_precip\_1hour*

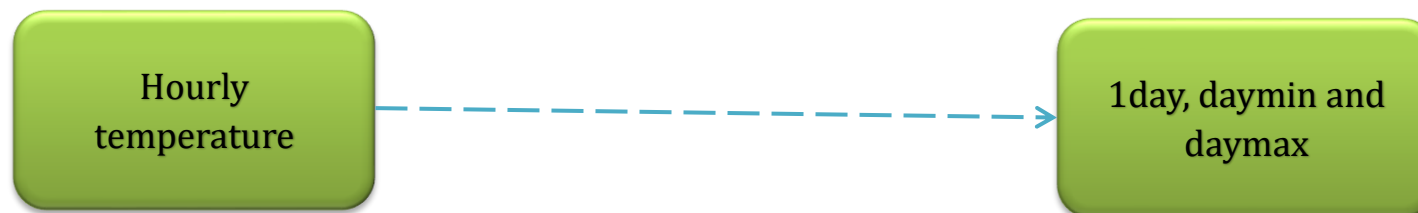


Processing chain: Chain converts hourly precipitation to daily and dekad cumulation

Applied to: ERA5 Total Precipitation

1day	1day cumulated Total Precipitation
10d	10 day cumulated Total Precipitation

## Processing chain: proc\_temperature\_hour

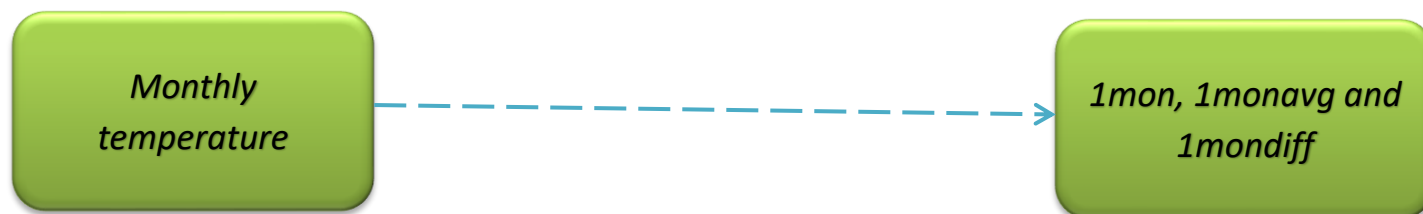


Processing chain: Chain converts hourly ERA5 temperature to daily & its min,max

Applied to: ERA5 2m Temperature

1day	1 Day 2m Temperature in Celcius
daymax	1 Day 2m Temperature max
daymin	1 Day 2m Temperature min

## Processing chain: proc\_temperature\_month



Processing chain: Chain converts monthly ERA5 temperature to Celsius and derived stats and anomaly.

Applied to: ERA5 2m Temperature

1mon	1 Month 2MT in Celsius
1monavg	1 Month 2MT Long term Average
1mondiff	2m temperature monthly anomaly

#### 4. PRODUCTS ACTIVATED FOR EACH RCC

<b>RAINFALL</b>	<b>Resolution</b>	<b>ACMAD</b>	<b>AGRHMET</b>	<b>CAPC-AC</b>	<b>SADC</b>	<b>ICPAC</b>	<b>SPREP</b>	<b>CIMH</b>	<b>Training Centers/JRC</b>	<b>Archives Start Date</b>
FEWSNET RFE	8km	Africa	Africa	Africa	Africa	Africa	N/A	N/A	Africa	2015.01.01 <sup>7</sup>
TAMSAT RFE 3.0 & 3.1 version	4km	Africa	Africa	Africa	Africa	Africa	N/A	N/A	Africa	2015.01.01 <sup>11</sup>
CHIRPS2.0 RFE	5km	Africa	Africa	Africa	Africa	Africa	ACP	Region	Global	2015.01.01 <sup>11</sup>
RAIN SPI 1&3 MONTH	5km	Africa	Africa	Africa	Africa	Africa	ACP	Region	Global	2015.01.01
ARC2-RAIN	11km	Africa	Africa	Africa	Africa	Africa	N/A	N/A	Africa	2015.01.01
GPCC RAINFALL	1 Degree	Africa	Africa	Africa	Africa	Africa	ACP	Region	Global	2015.01.01
ERA5 TOTAL PRECIPITATION(1hr)	25km	-	-	Africa	Africa	Region	ACP	Region	ACP	Taken from CDS
CDAS PRECIPITATION(1month)	2.5 Degree	ACP	ACP	ACP	ACP	-	ACP	-	ACP	2019.01.01
SEASONAL FORECAST (MONTH)	1 Degree	Africa	Africa	Africa	Africa	Region	ACP	Region	Global	Taken from CDS
SEASONAL FORECAST (SUB DAILY)	1 Degree	-	Africa	Africa	Africa	Region	ACP	Region	Global	Taken from CDS
EXTREME FORECAST INDEX	1 Degree	Africa	Africa	Africa	Africa	Region	ACP	Region	Global	Taken from CDS

<b>VEGETATION</b>	<b>Resolution</b>	<b>ACMAD</b>	<b>AGRHMET</b>	<b>CAPC-AC</b>	<b>SADC</b>	<b>ICPAC</b>	<b>SPREP</b>	<b>CIMH</b>	<b>Training Centers/JRC</b>	<b>Archives Start Date</b>
VGT-SPOT-PROBAV/S3 NDVI	1km	Africa	Region	Region	Region	Region	-	Region	Africa	2015.01.01
S3/OLCI NDVI	300m	Africa	Region	Region	Region	Region	-	Region	Africa	2021.01.01
S3/OLCI FAPAR	300m	Africa	Region	Region	Region	Region	-	Region	Africa	2021.01.01 <sup>8</sup>
S3/OLCI FCOVER	300m	Africa	Region	Region	Region	Region	-	Region	Africa	2021.01.01 <sup>12</sup>
S3/OLCI DMP	300m	Africa	Region	Region	Region	Region	-	Region	Africa	2021.01.01 <sup>12</sup>
S3/OLCI LAI	300m	Africa	Region	Region	Region	Region	-	Region	Africa	2021.01.01 <sup>12</sup>
JRC/MARS WSI-HP	1km	Africa	Region	Region	Region	-	Region	Region	Africa	2015.01.01
GDO RDrI-Agri	1 Degree	Africa	Africa	Africa	Africa	Africa	ACP	Region	Global	2015.01.01

<sup>7</sup> For this product also Long Term Stats (LTS) are provided: 10dmin, 10dmax, 10davg, 1monmin, 1monmax, 1monavg

<sup>8</sup> Only RT0 (Real time consolidation) check the product link for more details about the consolidation



<b>FIRE</b>	<b>Resolution</b>	<b>ACMAD</b>	<b>AGRHYMET</b>	<b>CAPC-AC</b>	<b>SADC</b>	<b>ICPAC</b>	<b>SPREP</b>	<b>CIMH</b>	<b>Training Centers/JRC</b>	<b>Archives Start Date</b>
<b>MODIS FIRMS</b>	1km	Africa	Region	Region	Region	Region	-	Region	Africa	2022.01.01 <sup>11</sup>

<b>MISCELLANEOUS</b>	<b>Resolution</b>	<b>ACMAD</b>	<b>AGRHYMET</b>	<b>CAPC-AC</b>	<b>SADC</b>	<b>ICPAC</b>	<b>SPREP</b>	<b>CIMH</b>	<b>Training Centers/JRC</b>	<b>Archives Start Date</b>
<b>LSASAF – ET</b>	3km	-	-	-	-	-	-	-	-	N/A
<b>LSASAF – LST</b>	3km	-	-	-	-	-	-	-	-	N/A
<b>CPC – SM</b>	50 km	Africa	-	Africa	Africa	Africa	ACP	Region	Global	2015.01.01
<b>ASCAT SWI</b>	0.1 degree	-	Region	Region	-	-	-	-	Global	2021.11.01
<b>GDO TWSA</b>	1 degree	-	Africa	Region	Region	Africa	ACP	Region	Global	2015.01.01
<b>GDO SMA</b>	0.1 degree	Region	Region	Region	Region	Region	ACP	Region	Global	2023.01.01
<b>S51 10mWS (month)</b>	1 degree	Africa	Africa	Region	-	-	ACP	Region	ACP	Taken from CDS
<b>S51 MSLP (month)</b>	1 degree	Africa	Africa	Region	-	-	ACP	Region	ACP	Taken from CDS
<b>S51 SSRD (month)</b>	1 degree	Africa	Africa	Region	Region	Region	-	Region	ACP	Taken from CDS
<b>ERA5 10m U&amp;V Wind (hour)</b>	25km	-	-	Region	-	-	-	-	ACP	Taken from CDS
<b>ERA5 SSRD (hour)</b>	25km	-	-	Region	-	Region	-	Region	ACP	Taken from CDS

<b>MARINE</b>	<b>Resolution</b>	<b>ACMAD</b>	<b>AGRHYMET</b>	<b>CAPC-AC</b>	<b>SADC</b>	<b>ICPAC</b>	<b>SPREP</b>	<b>CIMH</b>	<b>Training Centers/JRC</b>	<b>Archives Start Date</b>
<b>MODIS SST</b>	4km	Region	Region	Region	Region	-	Global	Region	Global	2022.01.01
<b>MODIS CHLA</b>	4km	Region	Region	Region	Region	-	Global	Region	Global	2022.08.01
<b>MODIS KD490</b>	4km	Region	Region	Region	Region	-	Global	Region	Global	2022.08.01
<b>MODIS PAR</b>	4km	Region	Region	Region	Region	-	Global	Region	Global	2022.08.01
<b>MODIS PP</b>	4km	Region	Region	Region	Region	-	Global	Region	Global	N/A
<b>OLCI CHLA</b>	4km	Region	Region	Region	Region	-	Global	Region	Global	N/A
<b>SLSTR SST</b>	1km	-	-	-	-	-	-	-	-	N/A
<b>ERA5 SST (month)</b>	25km	Region	Region	-	Region	Region	ACP	Region	ACP	Taken from CDS
<b>S51 SST (month)</b>	25km	Region	-	Region	Region	Region	ACP	Region	ACP	Taken from CDS

ERA5 SST (hour)	25km	-	-	Region	-	-	-	-	ACP	Taken from CDS
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## WATER BODY

	Resolution	ACMAD	AGRHMET	CAPC-AC	SADC	ICPAC	SPREP	CIMH	Training Centers/JRC	Archives Start Date
LANDSAT WATER BODY	30m	-	Region	-	Region	Region	-	-	All regions	2019.01.01

## TEMPERATURE

	Resolution	ACMAD	AGRHMET	CAPC-AC	SADC	ICPAC	SPREP	CIMH	Training Centers/JRC	Archives Start Date
GTS Gridded Temperature Tmax, Tmin	0.5 degree	Africa	Africa	Africa	Africa	Africa	ACP	N/A	Africa	N/A
GTS Gridded monthly Temperature & its anomaly	0.5 degree	Africa	Africa	Africa	Africa	Africa	ACP	N/A	Africa	N/A
ERA5 2MT Temperature (MONTH)	25km	Region	Region	Region	Region	Region	ACP	Region	ACP	Taken from CDS
ERA5 2MT Dew point Temperature (1hr)	25km	-	-	Region	-	Region	-	Region	ACP	Taken from CDS
ERA5 2MT Temperature(1hr)	25km	-	-	Region	-	Region	ACP	Region	ACP	Taken from CDS
SEASONAL FORECAST 2MT Temperature Tmax, Tmin & Anomaly (MONTH)	1 degree	Africa	Africa	Region	Region	Region	ACP	Region	ACP	Taken from CDS
SEASONAL FORECAST 2MT Temperature, Tmax, Tmin (SUB DAILY)	1 degree	-	-	Region	-	Region	-	Region	ACP	Taken from CDS
SEASONAL FORECAST 2MDW Temperature (MONTH)	1 degree	-	-	Region	-	Region	-	Region	ACP	Taken from CDS
SEASONAL FORECAST 2MDW Temperature (SUB DAILY)	1 degree	-	-	-	-	-	-	Region	ACP	Taken from CDS