

Theme	Data access on FTP site											Notes
	Product	Naming	Scientific Domain	Geographical Cover	Collection	Class	Product Type	Year	Month	Day number in the year	Week number in the year	
		SM_CLAS_MIR_PRODUC_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7 - SM : related to SMOS mission - CLAS : File Class (OPER : operational mode; RExx : reprocessing xx) - MIR (File Category) : MIRAS - PRODUC : product specific (see below for each product) - yyyymmddThhmmss : sensing start time of the data contained in the product - YYYYMMDDTHHMMSS : sensing stop time of the data contained in the product - vvv : version number of the processor generating the product - ccc : file counter (used to make distinction among products having all other filename identifiers identical). - 7 : means data site CATDS C-PDC										All products are using the EASE2 grid
Common products	Global polarised brightness temperature product - cylindrical projection - (arranged by incidence angle values) only in full polarization This product is a daily product. It includes all brightness temperatures acquired that day, at top of atmosphere level, transformed to ground polarisation reference frame, binned and averaged into fixed angle classes, in cylindrical projection. Ascending and descending orbits are processed separately, and only in full polarisation. DOI: http://dx.doi.org/10.12770/6294e08c-baec-4282-a251-33fee22ec67f	SM_CLAS_MIR_CDF3Tx_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7 - CDF3Tx : - C means that the data comes from CATDS - D for daily data - F for full polarisation - 3T means L3 polarised brightness temperature product - x = "A" for data from ascending orbit; "D" for data from descending orbit	Common_products (SMOS)	GRIDDED	L3	RE07 OPER	MIR_CDF3T[AD]	{year}		{day}		RE07 : 2010 => 24/05/2021 OPER : 25/05/2021 => ongoing
	Global polarised brightness temperature product - polar projection - (arranged by incidence angle values) only in full polarization This product includes all brightness temperatures acquired at top of atmosphere level, transformed to ground polarisation reference frame, binned and averaged into fixed angle classes, in polar projection. Each orbit (equator to equator) is processed separately, and only in full polarisation. DOI: http://dx.doi.org/10.12770/6294e08c-baec-4282-a251-33fee22ec67f	SM_TEST_MIR_CDF3Tx_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7 - CDF3Tx : - C means that the data comes from CATDS - D for daily data - F for full polarisation - 3T means L3 polarised brightness temperature product - x = "N" for data from north hemisphere orbit; "S" for data from south hemisphere orbit	Common_products (SMOS)	GRIDDED	L3	RE08 OPER	MIR_CDF3T[NS]	{year}		{day}		RE08 : 2010 => 31/03/2024 OPER : 01/04/2024 => ongoing
Soil Moisture products	1 day global map of Soil Moisture Values (Simplified UDP product) This product is the daily product of soil moisture. The retrievals are based on a multi-orbit retrieval algorithm. Ascending and descending orbits are processed separately. DOI: https://doi.org/10.12770/8db7102b-1b22-4db3-949d-e51269417aae	SM_CLAS_MIR_CLF3Sx_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7 - CLF3Sx : - C means that the data comes from CATDS - L for land data - F for full polarisation - 3S: for SM, it means Simplified UDP product - x = "A" for data from ascending orbit; "D" for data from descending orbit	Land_products (SM)	GRIDDED	L3SM	RE07 OPER	MIR_CLF3S[AD]	{year}		{day}		RE07 : 2010 => 24/05/2021 OPER : 25/05/2021 => ongoing
	1 day global map of Soil Moisture Values (P11p) This product is the daily product of soil moisture, and contains filtered data. The best estimation of soil moisture is selected for each node when several multi-orbit retrievals are available for a given day. A detection of particular events is also performed in order to flag the data. Ascending and descending orbits are still processed separately. The aggregated products are generated from this fundamental product. DOI: http://dx.doi.org/10.12770/9cef422f-ed3f-4090-9556-b2e895ba2ca8	SM_CLAS_MIR_CLF31x_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7 - CLF31x : - C means that the data comes from CATDS - L for land data - F for full polarisation - 31: for SM, it means 1 day global map (L3 P11p product) - x = "A" for data from ascending orbit; "D" for data from descending orbit	Land_products (SM)	GRIDDED	L3SM	RE07 OPER	MIR_CLF31[AD]	{year}		{day}		RE07 : 2010 => 24/05/2021 OPER : 25/05/2021 => ongoing
	Global L3 Soil Moisture products, 3 days global map The 3-day global product of soil moisture is an aggregation of daily global maps of soil moisture and its associated parameters over a 3 day moving window. The whole Earth's surface is covered in this 3-day product. The distinction between ascending and descending orbits is kept (no ascending/descending orbits aggregation). DOI : http://dx.doi.org/10.12770/b57e0d3d-e6e4-4615-b2ba-6feb7166e0e6	SM_CLAS_MIR_CLF33x_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7 - CLF33x : - C means that the data comes from CATDS - L for land data - F for full polarisation - 33: for SM, it means 3 days global map (L3 P1 product) - x = "A" for data from ascending orbit; "D" for data from descending orbit	Land_products (SM)	GRIDDED	L3SM	RE07 OPER	MIR_CLF33[AD]	{year}	{month}			RE07 : 2010 => 24/05/2021 OPER : 25/05/2015 => ongoing
	Dielectric constant maps, 3 days global map The 3-day global product of dielectric constant is an aggregation of daily global maps of dielectric constant and its associated parameters over a 3 day moving window. The whole Earth's surface is covered in this 3-day product. The distinction between ascending and descending orbits is kept (no ascending/descending orbits aggregation). DOI: http://dx.doi.org/10.12770/f6e48c06-0738-402d-a790-55ac7d6c6fe7	SM_CLAS_MIR_CLF3Ex_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7 - CLF3Ex : - C means that the data comes from CATDS - L for land data - F for full polarisation - 3E: for SM, it means dielectric constant map (L3 P4 product) - x = "A" for data from ascending orbit; "D" for data from descending orbit	Land_products (SM)	GRIDDED	L3SM	RE07 OPER	MIR_CLF3E[AD]	{year}	{month}			RE07 : 2010 => 24/05/2021 OPER : 25/05/2021 => ongoing
	Global L3 SM products, 10 days global map The 10-day global product is a decade aggregation of daily global maps. It contains minimum, maximum and median values of soil moisture and its associated parameters over the decade. The distinction between ascending and descending orbits is kept (no ascending/descending orbits aggregation). DOI : http://dx.doi.org/10.12770/b57e0d3d-e6e4-4615-b2ba-6feb7166e0e6	SM_CLAS_MIR_CLF3Dx_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7 - CLF3Dx : - C means that the data comes from CATDS - L for land data - F for full polarisation - 3D: for SM, it means 10 days global map (L3 P2 product) - x = "A" for data from ascending orbit; "D" for data from descending orbit	Land_products (SM)	GRIDDED	L3SM	RE07 OPER	MIR_CLF3D[AD]	{year}	{month}			RE07 : 2010 => 31/05/2021 OPER : 01/06/2021 => ongoing
	Global L3 SM products, monthly global map The monthly global product is a monthly aggregation of daily global maps. It provides the mean soil moisture, vegetation optical thickness, RFI statistics over a month, without taking into account the detected events in the daily product. It can be useful for climate monitoring. The distinction between ascending and descending orbits is kept (no ascending/descending orbits aggregation). DOI : http://dx.doi.org/10.12770/b57e0d3d-e6e4-4615-b2ba-6feb7166e0e6	SM_CLAS_MIR_CLF3Mx_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7 - CLF3Mx : - C means that the data comes from CATDS - L for land data - F for full polarisation - 3M: for SM, it means 1 month global map (L3 P3 product) - x = "A" for data from ascending orbit; "D" for data from descending orbit	Land_products (SM)	GRIDDED	L3SM	RE07 OPER	MIR_CLF3M[AD]	{year}	{month}			RE07 : 2010 => 31/05/2021 OPER : 01/06/2021 => ongoing

	<p>Global L4 RZSM product, daily global map of root zone soil moisture</p> <p>This product provides RZSM (m3/m3) representative of the 0-1 m depth of the soil. The product contains also a quality index taking into account the presence of Radio Frequency Interference (RFI), low quality of retrieval of the input surface soil moisture, and a high fraction of non-nominal surfaces. DOI: http://dx.doi.org/10.12770/316e77af-cb72-4312-96a3-3011cc5068d4</p>	<p>SM_CLAS_MIR_CLF4Rx_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7</p> <p>- CLF4RD : - C means that the data comes from CATDS - L for land data - F for full polarisation - 4R: for SM, it means L4 Root zone soil moisture - x= "A" for data from ascending orbit; "D" for data from descending orbit</p>	Land_products (SM)	GRIDDED	L4SM	RE07 OPER	MIR_CLF4R[AD]	{year}		{day}		RE07 : 2010 => 24/05/2021 OPER : 25/05/2021 => ongoing
Ocean Salinity products	<p>Intermediate product OS/SSS L2Q - Valid Debiased Ocean Salinity values</p> <p>This product has the same format as the L2P product, with SSS corrected from coastal bias and latitudinal bias. An additional field qualifies the corrected SSS with the information from AUX_MINMAX. DOI: http://dx.doi.org/10.12770/12dba510-cd71-4d4f-9fc1-9cc027d128b0</p>	<p>SM_CLAS_MIR_CSF2Qx_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7</p> <p>- CSF2Qx : - C means that the data comes from CATDS - S for sea data - F for full polarisation - 2Q means Intermediate product OS L2Q - x= "A" for data from ascending orbit; "D" for data from descending orbit</p>	Ocean_products (OS)	GRIDDED	L3OS	RE07 OPER	MIR_CSF2Q[AD]	{year}		{day}		v331: RE07 : 2010 => 24/05/2021 OPER : 25/05/2021 => ongoing v333: RE08 : 2010 => 31/05/2024 OPER : 01/06/2024 => ongoing
	<p>L3 OS/SSS product L3Q - Average Debiased Salinity values</p> <p>Average debiased (costal & latitudinal biases) 10 days & monthly salinity field based on L2Q products, at 2 spatial resolutions (25km, 50km) DOI: http://dx.doi.org/10.12770/0f02fc28-cb86-4c44-89f3-ee7df6177e7b</p>	<p>SM_CLAS_MIR_CSQ3r_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7</p> <p>- CSQ3r_ : - C means that the data comes from CATDS - S for sea data - Q3: means L3 OS debiased product in full polarisation only - r = "A" for 25km, "B" for 50km - for mixed orbits (ascending + descending)</p>	Ocean_products (OS)	GRIDDED	L3OS	RE07 OPER	MIR_CSQ3A_ MIR_CSQ3B_	{year}	{month}			RE07 : 2010 => 24/05/2021 OPER : 25/05/2021 => ongoing
	<p>L3 OS/SSS L3G - Debiased gaussian average daily salinity field</p> <p>This product contains daily salinity fields from a 9 days temporal gaussian average, corrected from land-sea contamination and latitudinal bias, based on L2Q products, mixing ascending and descending orbits. DOI: https://doi.org/10.12770/9c97fb5c-d7d5-4bc2-a5c7-57944026cd60</p>	<p>SM_CLAS_MIR_CS3G09_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7</p> <p>- CS3G09 : - C means that the data comes from CATDS - S for sea data - 3G: means L3 OS in Gaussian mean - 09: mean 9 days (width of the gaussian)</p>	Ocean_products (OS)	GRIDDED	L3OS	RE07 OPER	MIR_CS3G09	{year}			{day}	RE07 : 2010 => 24/05/2021 OPER : 25/05/2021 => ongoing
	<p>Weekly optimal interpolation salinity field product from SMOS and SMAP satellites and ISAS</p> <p>This product contains global Level 4 analyses of the of the Sea Surface Salinity (SSS), Sea Surface Density (SSD) and Sea Surface Spiciness (SSSp), along with Sea Surface Absolute Salinity (SSA), Conservative Temperature (SCT), surface thermal expansion coefficient (alpha) and haline contraction coefficient (beta). The SSS product is obtained using an optimal interpolation (OI) algorithm, that combines ISAS in situ SSS OI analyses and satellites image to reduce large scale and temporally varying bias. Two version exists: one with SMOS (Soil Moisture Ocean Salinity) satellite data (since 06/2010), and one with both SMOS and SMAP (Soil Moisture Active and Passive) satellite data (since 04/2015). The SSS L4 product outcome is then combined with satellite SST products to compute thermodynamic sea water parameters using TEOS-10 DOI: https://doi.org/10.12770/630e018e-0711-4eff-965d-15a728e0b27d</p>	<p>SM_CLAS_MIR_CSF4On_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7</p> <p>- CSF4On : - C means that the data comes from CATDS - S for sea data - F for full polarisation - 4O: means L4 Optimal interpolation - n: 1 for SMOS only (since 06/2010), 2 for SMAP+SMAP (since 04/2015)</p>	Ocean_products (OS)	GRIDDED	L4OS	RE07 OPER	MIR_CSF401 MIR_CSF402	{year}			{week}	RE07 : 2010 => 30/05/2021 OPER : 31/05/2021 => ongoing
Ocean Salinity products (1-day delay alternative products)	<p>Intermediate product OS/SSS L2Q - Valid Debiased Ocean Salinity values</p> <p>This product has the same format as the L2P product, with SSS corrected from coastal bias and latitudinal bias. An additional field qualifies the corrected SSS with the information from AUX_MINMAX. DOI: http://dx.doi.org/10.12770/12dba510-cd71-4d4f-9fc1-9cc027d128b0</p>	<p>SM_OPER_NRT_CSF2Qx_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7</p> <p>- CSF2Qx : - C means that the data comes from CATDS - S for sea data - F for full polarisation - 2Q means Intermediate product OS L2Q - x= "A" for data from ascending orbit; "D" for data from descending orbit</p>	Ocean_products (OS)	GRIDDED	L3OS	OPER	NRT_CSF2Q[AD]	{year}			{day}	
	<p>L3 OS/SSS product L3Q - Average Debiased Salinity values</p> <p>Average debiased (costal & latitudinal biases) 10 days salinity field based on L2Q products, at 2 spatial resolutions (25km, 50km) DOI: http://dx.doi.org/10.12770/0f02fc28-cb86-4c44-89f3-ee7df6177e7b</p>	<p>SM_OPER_NRT_CSQ3r_yyyymmddThhmmss_YYYYMMDDTHHMMSS_vvv_ccc_7</p> <p>- CSQ3r_ : - C means that the data comes from CATDS - S for sea data - Q3: means L3 OS debiased product in full polarisation only - r = "A" for 25km, "B" for 50km - for mixed orbits (ascending + descending)</p>	Ocean_products (OS)	GRIDDED	L3OS	OPER	NRT_CSQ3A_ NRT_CSQ3B_	{year}	{month}			