No.	Predictor_CNR_IREA	Unit of Measurement	Information
1	LC_ISPRA_2022	dimensionless	Land cover map 2022 based on Copernicus data and ISPRA data. The map is obtained by integrating data from the Land monitoring Service of the Copernicus program, with reference to the Local component (Urban Atlas, Coastal Zones, Riparian Zones and Natura 2000) and Pan-European (CORINE Land Cover, CLC+ Backbone) referring to 2018 (last year of Copernicus data update) and the National Land Consumption Map of ISPRA 2022. The spatial resolution is 10 m. The correspondence between codes and coverage type is as follows: 1100 = Other unclassified artificial surfaces 1110 = Impermeable surfaces 1120 = Permeable surfaces 1210 = Consolidated surfaces 1220 = Unconsolidated surfaces 2111 = Broadleaf trees 2112 = Conifers 2120 = Shrublands 2211 = Periodic herbaceous 2212 = Permanent herbaceous 3100 = Permanent water bodies 3200 = Perennial ice and snow 4000 = Wetlands The file is available at the link https://groupware.sinanet.isprambiente.it/usocopertura-e-consumo-disuolo/library/copertura-del-suolo/carta-dicopertura-del-suolo Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2018/2022. EPSG:32633.
2	DEM_Tinitaly	meters (m)	TINITALY provides a DEM with 10 m resolution. Updated to the year 2023. References at the link: https://tinitaly.pi.ingv.it/ The files are available at the link: https://tinitaly.pi.ingv.it/Download_Area1_1.html Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Year 2023. EPSG:32633
3	slope	degrees (°)	Starting from the DEM Tinitaly, the slope map was derived in QGIS with the 'slope' tool. Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Year 2023. EPSG:32633
4	HAND	meters (m)	The Height Above Nearest Drainage (HAND) map contains the vertical distance between a position (grid-cell) and the nearest watercourse. The production of the HAND map requires as input a DEM (DEM_Tinitaly) and a spatial representation of the river network of a region to define local drainage. The HAND map was created in QGIS with the PCRaster Tools plugin. First, the direction of local drainage discharge is calculated. Then drainage is determined using flow accumulation. Drainage pixels are given a unique ID for which their basins are determined. Then the difference between the elevation of a pixel and the elevation of the outlet of the pixel's watershed is calculated. Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Year 2023. EPSG:32633
			Average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes'

5	Fp_A_HH_m_CSK	0-1	theorem through the intensity values of COSMO-Skymed products in HH polarization from 05/19/2011 to 01/05/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2011/2024. EPSG:32633
6	Fp_A_HH_s_CSK	0-1	Standard deviation related to probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of COSMO-Skymed products in HH polarization from 05/19/2011 to 01/05/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2011/2024. EPSG:32633
7	Fp_AC_HH_m_CSK	0-1	Average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of COSMO-Skymed products in HV polarization from 05/19/2011 to 01/05/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2011/2024. EPSG:32633
8	Fp_AC_HH_s_CSK	0-1	Standard deviation related to probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of COSMO-Skymed products in HV polarization from 05/19/2011 to 01/05/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2011/2024. EPSG:32633
9	Fp_A_HV_m_CSK	0-1	Average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of COSMO-Skymed products in HV polarization from 05/19/2011 to 01/05/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2011/2024. EPSG:32633
10	Fp_A_HV_s_CSK	0-1	Standard deviation related to probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of COSMO-Skymed products in HV polarization from 05/19/2011 to 01/05/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2011/2024. EPSG:32633
11	Fp_AC_HV_m_CSK	0-1	Average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of COSMO-Skymed products in HV polarization from 05/19/2011 to 01/05/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2011/2024. EPSG:32633
			Standard deviation related to probability values assumed by each

12	Fp_AC_HV_s_CSK	0-1	Standard deviation related to probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of COSMO-Skymed products in HV polarization from 05/19/2011 to 01/05/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2011/2024. EPSG:32633
13	Fp_A_HH_m_SAO	0-1	Average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of SAOCOM products in HH polarization from 11/06/2020 to 04/07/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2020/2024. EPSG:32633
14	Fp_A_HH_s_SAO	0-1	Standard deviation related to probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of SAOCOM products in HH polarization from 11/06/2020 to 04/07/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2020/2024. EPSG:32633
15	Fp_AC_HH_m_SAO	0-1	Average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of SAOCOM products in HH polarization from 11/06/2020 to 04/07/2024 (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2020/2024. EPSG:32633.
16	Fp_AC_HH_s_SAO	0-1	Standard deviation related to probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of SAOCOM products in HH polarization from 11/06/2020 to 04/07/2024 (Foggia Province). Original resolution 10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2020/2024. EPSG:32633.
17	Fp_A_VV_m_S1_A146	0-1	Maximum value of the average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of SENTINEL-1 SLC A146_IW1/IW2/IW3 products from 2015 to 2023 in VV polarization (Foggia and Bari Provinces). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
18	Fp_A_VV_s_S1_A146	0-1	Maximum value of the standard deviation of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of SENTINEL-1 SLC A146_IW1/IW2/IW3 products from 2015 to 2023 in VV polarization (Foggia and Bari Provinces). Original resolution 10x10 m. Adaptation to the project fishnet

			resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
19	Fp_AC_VV_m_S1_A146	0-1	Maximum value of the average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of SENTINEL-1 SLC A146_IW1/IW2/IW3 products from 2015 to 2023 in VV polarization (Foggia and Bari Provinces). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
20	Fp_AC_VV_s_S1_A146	0-1	Maximum value of the standard deviation of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of SENTINEL-1 SLC A146_IW1/IW2/IW3 products from 2015 to 2023 in VV polarization (Foggia and Bari Provinces). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
21	Fp_A_VV_m_S1_D051	0-1	Maximum value of the average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of SENTINEL-1 SLC D051_IW2/IW3 products from 2015 to 2023 in VV polarization (Bari Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
22	Fp_A_VV_s_S1_D051	0-1	Maximum value of the standard deviation of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of SENTINEL-1 SLC D051_IW2/IW3 products from 2015 to 2023 in VV polarization (Bari Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
23	F_P_AC_VV_m_S1_D051	0-1	Maximum value of the average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of SENTINEL-1 SLC D051_IW2/IW3 products from 2015 to 2023 in VV polarization (Bari Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
24	Fp_AC_VV_s_S1_D051	0-1	Maximum value of the standard deviation of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of SENTINEL-1 SLC D051_IW2/IW3 products from 2015 to 2023 in VV polarization (Bari Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
			Maximum value of the average of probability values assumed by

25	Fp_A_VV_m_S1_D124	0-1	each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of SENTINEL-1 SLC D124_IW1/IW2 products from 2015 to 2023 in VV polarization (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
26	Fp_A_VV_s_S1_D124	0-1	Maximum value of the standard deviation of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity values of SENTINEL-1 SLC D124_IW1/IW2 products from 2015 to 2023 in VV polarization (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
27	Fp_AC_VV_m_S1_D124	0-1	Maximum value of the average of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of SENTINEL-1 SLC D124_IW1/IW2 products from 2015 to 2023 in VV polarization (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.
28	Fp_AC_VV_s_S1_D124	0-1	Maximum value of the standard deviation of probability values assumed by each pixel within the time series of flooding probability rasters calculated with Bayes' theorem through the intensity and coherence values of SENTINEL-1 SLC D124_IW1/IW2 products from 2015 to 2023 in VV polarization (Foggia Province). Original resolution 10x10 m. Adaptation to the project fishnet resolution with 100x100 m resolution. Period 2015/2023. EPSG:32633.