
NBS monthly report - 2024 July

MET Norway - NBS team

Oct 17, 2024

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The NBS project

The European Space Agency (ESA) is in charge for the distribution of data from the Sentinel satellite constellation. In order to maintain a reliable and sustainable data hub, the creation and operation of multiples data hubs is necessary. With the purpose of keeping and maintaining a reliable and online source of data from the ESA Sentinel constellation for an Area Of Interest (AOI) covering Norway, the Norwegian Space Agency (NOSA) funded the National Bakke Segment (NBS) project. The map below is indicating the AOI in red.



Therefore, MET Norway was contracted for the operation of the NBS data. The NBS is implemented as a part of the operational infrastructure at MET Norway. As so it follows the normal procedures for planning, implementation and testing, and operations. User access to the NBS is configured according to NOSA requirements. This includes the use of ESA's DHuS software for synchronization between ESA and user accessibility.

The present report is part of MET Norway duties to inform about its performance as operator of the NBS. Monthly reports will be created monthly to regularly communicate the status of MET Norway's NBS.

The Sentinel products

The NBS project includes the management of the data received from Sentinel-1 (S1), Sentinel-2, Sentinel-3 (S3) and Sentinel-5p (S5p) satellites for the specified AOI. Each of the Sentinels has different operational modes for achieving images with different characteristics. Those images can have different processing levels. The products included in the DHR are Level-1 images for all the Sentinels except for Sentinel-2. For which Level-1 (S2L1C) and Level-2 (S2L2A) are both included in the NBS.

BackEnds and FrontEnds

As operator of NBS, the source of Sentinel data is ESA; and ESA spreads the Sentinel data through the Copernicus Data Space Ecosystem (CDSE - dataspace.copernicus.eu). CDSE is ESA's FrontEnd (FE) for Sentinel data accessibility. MET Norway uses the DHS software for synchronization and creation of other FrontEnds. During the synchronization

process a BackEnd (BE) is created. MET Norway is also running two FEs, colhub.met.no and colhub-archive.met.no. The colhub FE includes or will include all the products mentioned for Sentinel global products plus S3 marine products from Copernicus, S1 products from the Kongsberg Satellite Services (KSAT), and S2 Digital Elevation Model (DEM). The colhub-archive FE includes data from S1, S2L1C, S2L2A, S2DEM, S3, S5p products for the AOI. An important distinction between both FEs is that colhub-archive will always maintain available online all the products for the AOI.

In order to maintain an accountability on products synchronized from ESA's CDSE and available for users at the different FEs, it is necessary to understand the architecture of MET Norway's DHR.

ACRONYMS

Here follows a formatted list of acronyms.

BE BackEnd

DEM Digital Elevation Model

DHuS Data Hub Software

ESA European Space Agency

FE FrontEnd

KSAT Kongsberg Satellite Services

MET Norway Meteorological Institute of Norway

CDSE Copernicus Data Space Ecosystem

S1 Sentinel-1

S2 Sentinel-2

S2L1C Sentinel-2 Level-1 C

S2L2A Sentinel-2 Level-2 A

S3 Sentinel-3

S5p Sentinel-5p

QUICK SUMMARY

The table below shows a short overview of the NBS performance operation during the last 30 days. The number of products are compared against CDSE. All columns represents the number of products in each portal except the last 3 columns. Those 3 columns represents the data flow from MET Norway to users through the portals where Volumes are measured in Tb.

Portals	S1	S2L1C	S2L2A	S3	S5p	Nb of users	Nb of products	Volume
colhub.met.no	8567	35878	35294	29472	15172	17	25142	12.989
colhub-archive.met.no	8574	35632	35051	29176	15158	7	3510	2.295
dataspace.copernicus.eu	9423	36737	36737	43176	0			

Finally, the total amount of disk space dedicated to the NBS project, including either products in SAFE and NetCDF formats, represents 5962 Tb.

Due to tracking the data ingested and produced for the NBS project in the last year it is possible to forecast the upcoming need for disk space. As long as data flows follows the same pattern than last year, in 6 months the total disk space will grow until 6364 Tb; while in 12 months it is forecast to become 6923 Tb.

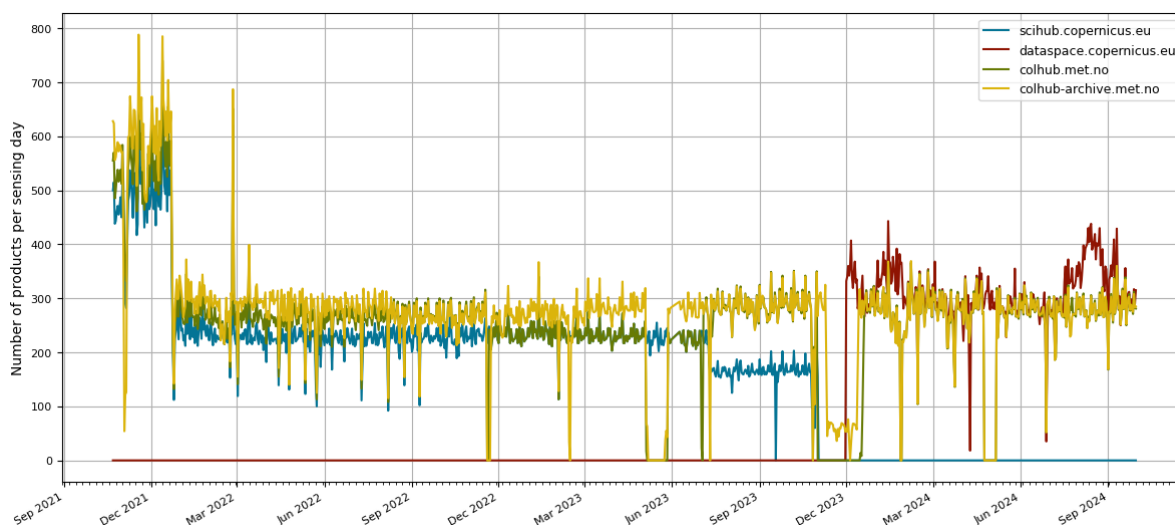
SENTINEL-1 PRODUCTS

This section shows the performance of MET Norway for Sentinel-1 products. Both, an overall status and last month status are shown below.

Note that scihub is no longer in operation but is included for historical comparisons.

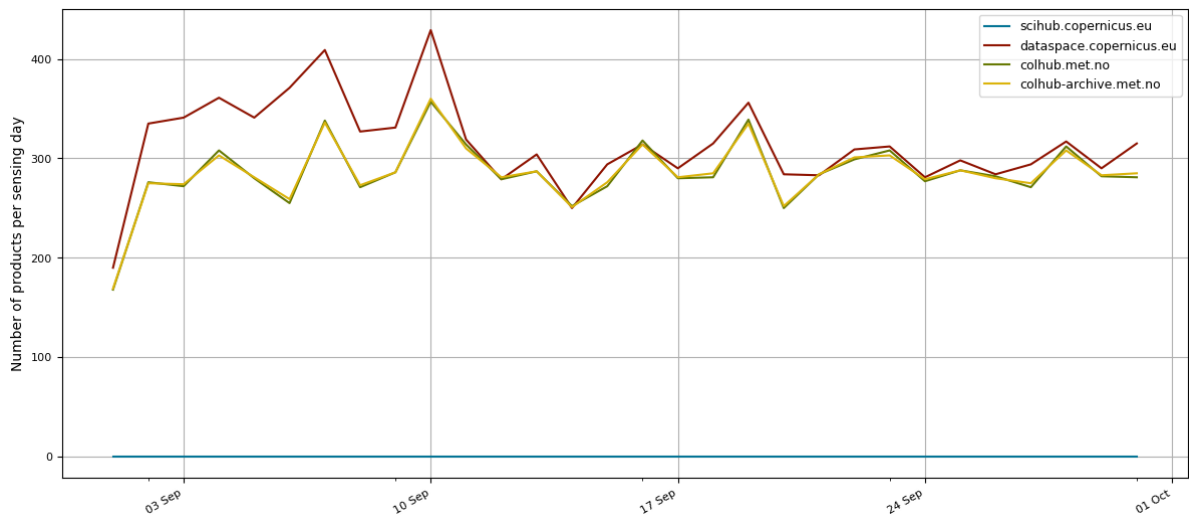
3.1 Products on portals

The following section contains an update on the Sentinel-1 products included in the different FEs and BEs.



The figure above represents the overall number of products present in the different BackEnds and FrontEnds per day for Sentinel-1.

While the figure below shows a zoom on the last month.



A table is also included for more detailed information.

	colhub.met.no	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-09-01	168.0	190.0	169.0
2024-09-02	276.0	335.0	275.0
2024-09-03	272.0	341.0	274.0
2024-09-04	308.0	361.0	303.0
2024-09-05	280.0	341.0	281.0
2024-09-06	255.0	371.0	259.0
2024-09-07	338.0	409.0	336.0
2024-09-08	271.0	327.0	273.0
2024-09-09	286.0	331.0	286.0
2024-09-10	357.0	429.0	360.0
2024-09-11	314.0	319.0	310.0
2024-09-12	279.0	279.0	281.0
2024-09-13	287.0	304.0	287.0
2024-09-14	252.0	250.0	251.0
2024-09-15	272.0	294.0	276.0
2024-09-16	318.0	314.0	314.0
2024-09-17	280.0	290.0	281.0
2024-09-18	281.0	315.0	285.0
2024-09-19	339.0	356.0	335.0
2024-09-20	250.0	284.0	252.0
2024-09-21	284.0	283.0	284.0
2024-09-22	299.0	309.0	301.0
2024-09-23	308.0	312.0	303.0
2024-09-24	277.0	281.0	279.0
2024-09-25	288.0	298.0	288.0
2024-09-26	282.0	284.0	280.0
2024-09-27	271.0	294.0	275.0
2024-09-28	312.0	317.0	308.0
2024-09-29	282.0	290.0	283.0
2024-09-30	281.0	315.0	285.0

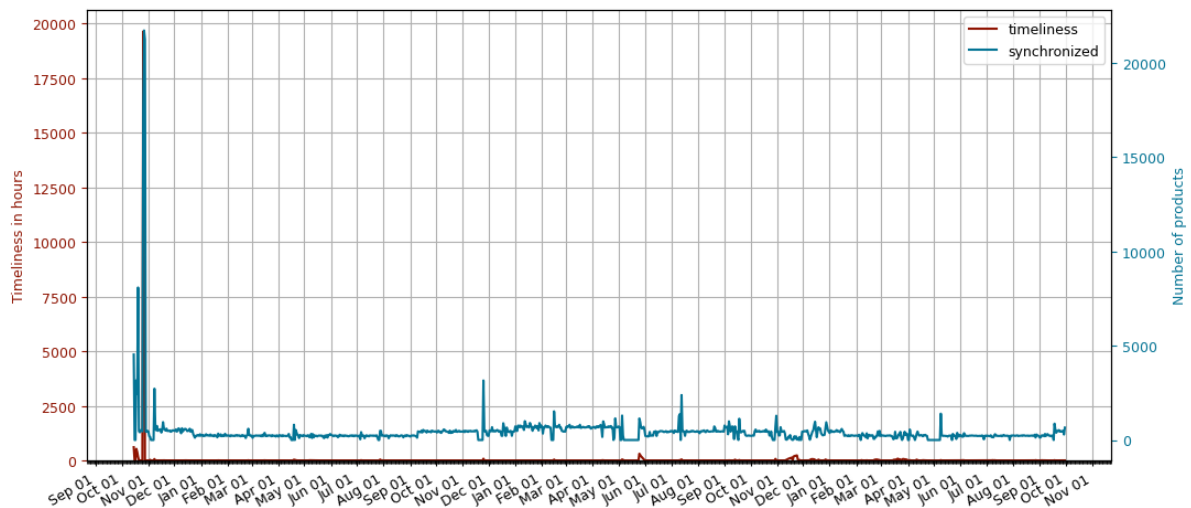
3.2 Missing products

The overall total number of Sentinel-1 products is 8147655. The number of overall Sentinel-1 missing products consists of 4906739 images. This represents that a 400% of the total was included in MET Norway DHR, while a -300% was not included.

The total number of Sentinel-1 products in September is 1268711. The number of Sentinel-1 missing products during September consists of 1145120 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

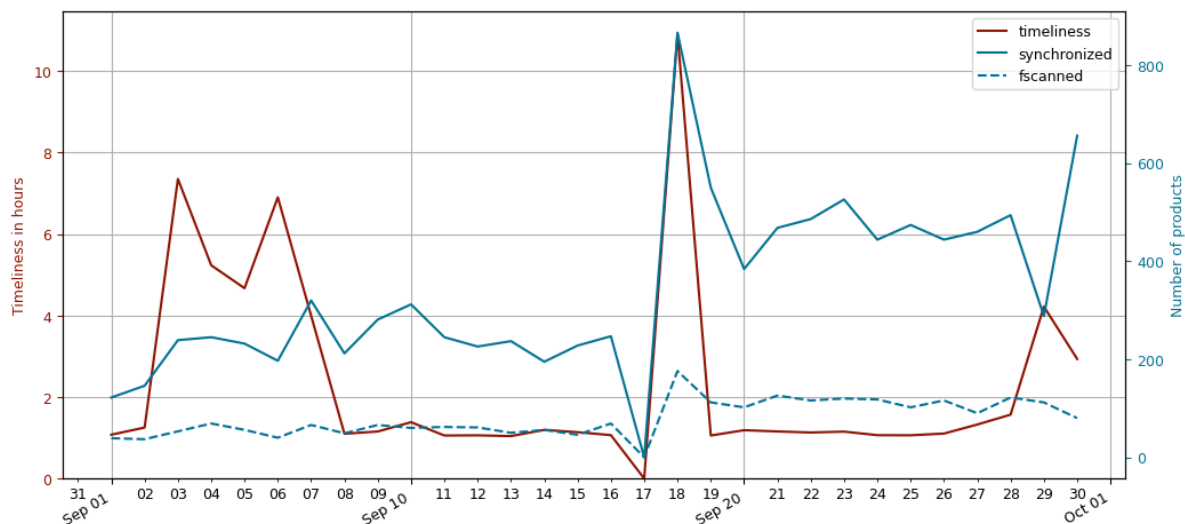
3.3 Data ingestion

In this section the time difference between sensing time and ingestion time at MET Norway is assessed. The ingestion time is the time at which a Sentinel product was downloaded to MET Norway BE and so, it is automatically available in at least one of the MET Norway FEs.



The figure above shows an overall status of the Sentinel-1 synchronization between ESA datahub and MET Norway BE. The number of products synchronized and deleted are represented by the dark and light blue lines respectively. The red line represents the timeliness.

Following previous sections, the graph below shows a zoom in the last month for the synchronization between ESA datahub and MET Norway BE.



A more detailed information is given in the table below where the last month is assessed for products synchronized from ESA.

day	size	number	timeliness
2024-09-01	257.058467	122	1.076639
2024-09-02	311.084371	146	1.252422
2024-09-03	545.471702	239	7.354178
2024-09-04	601.702504	245	5.235643
2024-09-05	603.967237	232	4.672049
2024-09-06	411.815771	197	6.904530
2024-09-07	715.367952	320	3.997018
2024-09-08	396.410452	212	1.099256
2024-09-09	879.454483	281	1.156002
2024-09-10	759.051743	312	1.383615
2024-09-11	591.641700	245	1.056812
2024-09-12	558.519836	226	1.061380
2024-09-13	494.118427	237	1.042278
2024-09-14	476.811903	195	1.195659
2024-09-15	507.283781	228	1.138122
2024-09-16	603.357469	247	1.066104
2024-09-17	0.000000	0	0.000000
2024-09-18	2255.502186	866	10.918072
2024-09-19	1336.540912	550	1.056664
2024-09-20	802.873653	384	1.187294
2024-09-21	1187.760131	468	1.156611
2024-09-22	1107.216736	486	1.130744
2024-09-23	1266.533958	526	1.152311
2024-09-24	1086.679172	444	1.064977
2024-09-25	988.156562	474	1.062436
2024-09-26	1094.713758	444	1.104444
2024-09-27	1045.861308	460	1.326216
2024-09-28	1170.702094	494	1.568977
2024-09-29	698.060124	288	4.222190
2024-09-30	1641.157633	656	2.935245

It is also given extra information in the table below where the data are assessed for products synchronized from KSAT.

day	size	number	timeliness
2024-09-01	47.671929	39	0.682393
2024-09-02	49.064203	37	0.972964
2024-09-03	74.407940	53	1.240137
2024-09-04	58.448717	69	0.696907
2024-09-05	72.055160	56	0.820420
2024-09-06	48.809524	40	0.855237
2024-09-07	81.780189	66	0.839337
2024-09-08	46.524619	49	0.610966
2024-09-09	74.076073	66	0.644678
2024-09-10	69.205467	60	0.777492
2024-09-11	63.137276	62	0.652691
2024-09-12	74.305769	61	0.696929
2024-09-13	54.599945	50	0.818025
2024-09-14	73.115280	56	0.823713
2024-09-15	50.785774	46	0.694784
2024-09-16	70.655866	69	0.677456
2024-09-17	0.000000	0	0.000000
2024-09-18	217.873202	176	15.410151
2024-09-19	159.301218	112	0.811178
2024-09-20	95.883710	102	0.605297
2024-09-21	141.649488	126	0.635496
2024-09-22	142.585385	116	0.832859
2024-09-23	124.432536	120	0.708399
2024-09-24	149.559745	118	0.797421
2024-09-25	104.359419	102	0.806542
2024-09-26	143.936375	116	0.871930
2024-09-27	87.794069	90	0.698373
2024-09-28	121.719278	122	0.677887
2024-09-29	133.906956	112	0.844265
2024-09-30	97.759529	80	1.130389

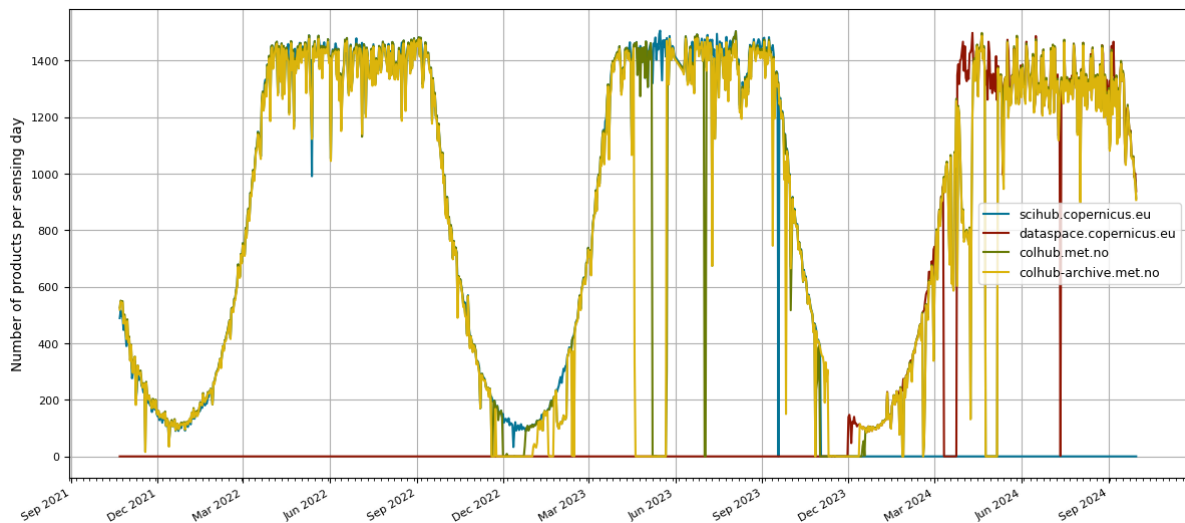
SENTINEL-2 LEVEL-1C PRODUCTS

This section shows the performance of MET Norway for Sentinel-2 Level-1C products. Both, an overall status and last month status are shown below.

Note that scihub is no longer in operation but is included for historical comparisons.

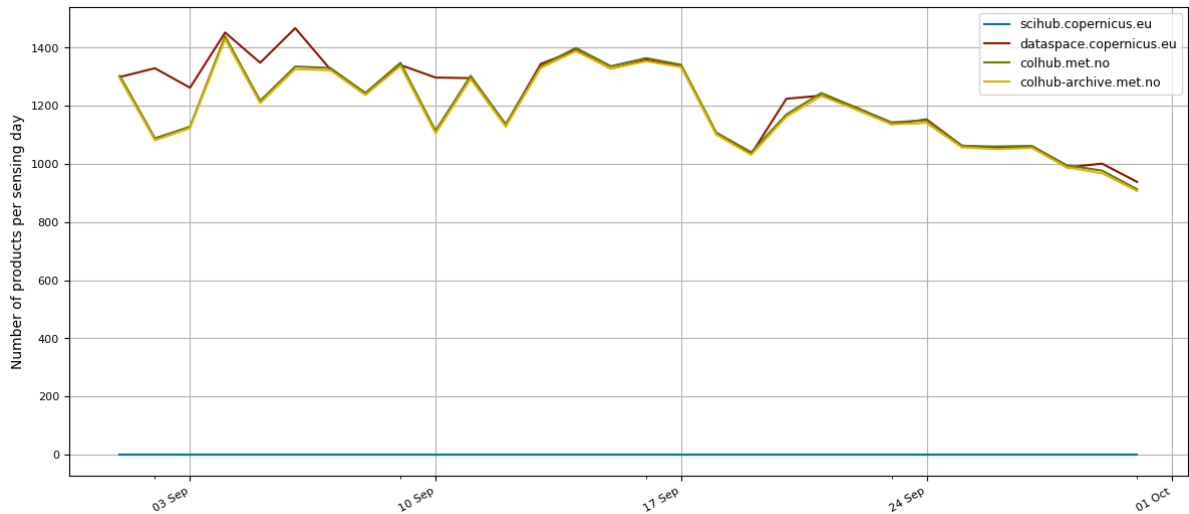
4.1 Products on portals

The following section contains an update on the Sentinel-2 Level-1C products included in the different FEs and BEs.



The figure above represents the overall number of products present in the different BackEnds and FrontEnds per day for Sentinel-2 Level-1C.

While the figure below shows a zoom on the last month.



A table is also included for more detailed information.

	colhub.met.no	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-09-01	1303.0	1299.0	1294.0
2024-09-02	1088.0	1329.0	1081.0
2024-09-03	1128.0	1262.0	1123.0
2024-09-04	1439.0	1452.0	1429.0
2024-09-05	1217.0	1348.0	1209.0
2024-09-06	1335.0	1467.0	1326.0
2024-09-07	1330.0	1325.0	1322.0
2024-09-08	1244.0	1243.0	1237.0
2024-09-09	1348.0	1340.0	1337.0
2024-09-10	1114.0	1297.0	1105.0
2024-09-11	1303.0	1295.0	1292.0
2024-09-12	1136.0	1135.0	1128.0
2024-09-13	1336.0	1344.0	1330.0
2024-09-14	1399.0	1391.0	1388.0
2024-09-15	1336.0	1328.0	1328.0
2024-09-16	1364.0	1357.0	1353.0
2024-09-17	1341.0	1337.0	1333.0
2024-09-18	1108.0	1106.0	1101.0
2024-09-19	1040.0	1034.0	1031.0
2024-09-20	1170.0	1224.0	1162.0
2024-09-21	1244.0	1235.0	1234.0
2024-09-22	1193.0	1194.0	1186.0
2024-09-23	1143.0	1137.0	1136.0
2024-09-24	1150.0	1153.0	1141.0
2024-09-25	1062.0	1063.0	1057.0
2024-09-26	1060.0	1055.0	1051.0
2024-09-27	1062.0	1060.0	1055.0
2024-09-28	995.0	988.0	988.0
2024-09-29	977.0	1001.0	968.0
2024-09-30	913.0	938.0	907.0

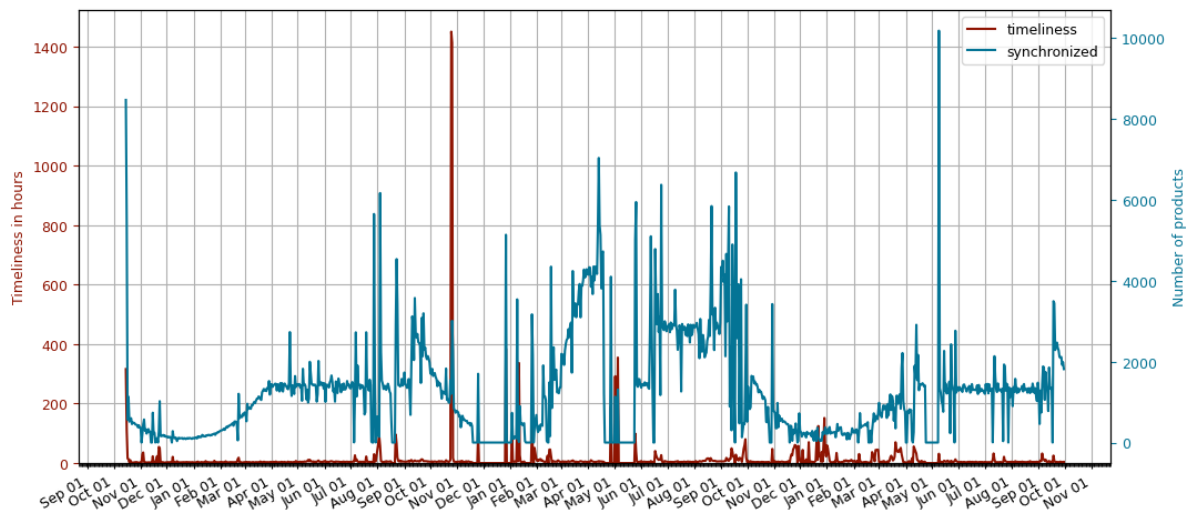
4.2 Missing products

The overall total number of Sentinel-2 Level-1C products is 8147655. The number of overall Sentinel-2 Level-1C missing products consists of 4906739 images. This represents that a 400% of the total was included in MET Norway DHR, while a -300% was not included.

The total number of Sentinel-2 Level-1C products in September is 1268711. The number of Sentinel-2 Level-1C missing products during September consists of 1145120 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

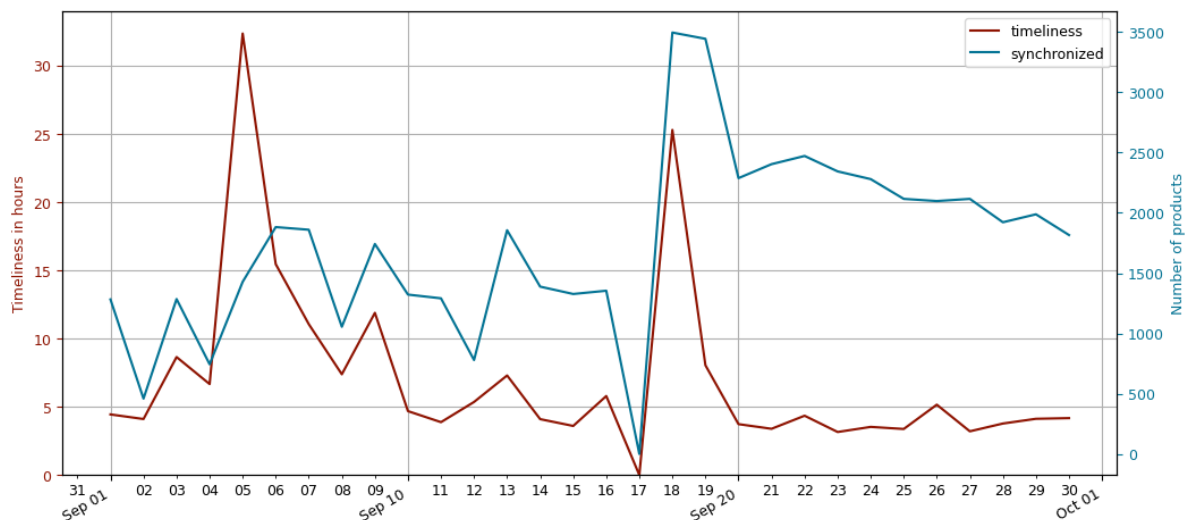
4.3 Data ingestion

In this section the time difference between sensing time and ingestion time at MET Norway is assessed. The ingestion time is the time at which a Sentinel product was downloaded to MET Norway BE and so, it is automatically available in at least one of the MET Norway FEs.



The figure above shows an overall status of the Sentinel-2 Level-1C synchronization between ESA datahub and MET Norway BE. The number of products synchronized and deleted are represented by the dark and light blue lines respectively. The red line represents the timeliness.

Following previous sections, the graph below shows a zoom in the last month for the synchronization between ESA datahub and MET Norway BE.



A more detailed information is given in the table below where the last month is assessed for products synchronized from ESA.

day	size	number	timeliness
2024-09-01	517.374936	1282	4.436799
2024-09-02	214.096549	459	4.100088
2024-09-03	547.999255	1285	8.639290
2024-09-04	338.671279	744	6.659789
2024-09-05	651.239574	1428	32.328470
2024-09-06	847.216443	1882	15.442748
2024-09-07	832.085268	1860	11.047471
2024-09-08	470.544434	1055	7.376131
2024-09-09	814.369920	1742	11.875683
2024-09-10	602.309139	1322	4.678169
2024-09-11	592.052587	1291	3.870817
2024-09-12	351.357374	779	5.350204
2024-09-13	812.787076	1856	7.290305
2024-09-14	619.650408	1388	4.092493
2024-09-15	628.637474	1327	3.592840
2024-09-16	622.887480	1354	5.783712
2024-09-17	0.000000	0	0.000000
2024-09-18	1568.083687	3496	25.269940
2024-09-19	1535.414220	3444	8.036614
2024-09-20	1054.326456	2288	3.725821
2024-09-21	1109.316902	2404	3.384658
2024-09-22	1126.174322	2472	4.342183
2024-09-23	1059.371841	2344	3.149523
2024-09-24	1037.813407	2280	3.523456
2024-09-25	948.425047	2116	3.371530
2024-09-26	957.595429	2098	5.150515
2024-09-27	930.499941	2116	3.199957
2024-09-28	859.652509	1922	3.770354
2024-09-29	872.122721	1988	4.117262
2024-09-30	796.005962	1816	4.166925

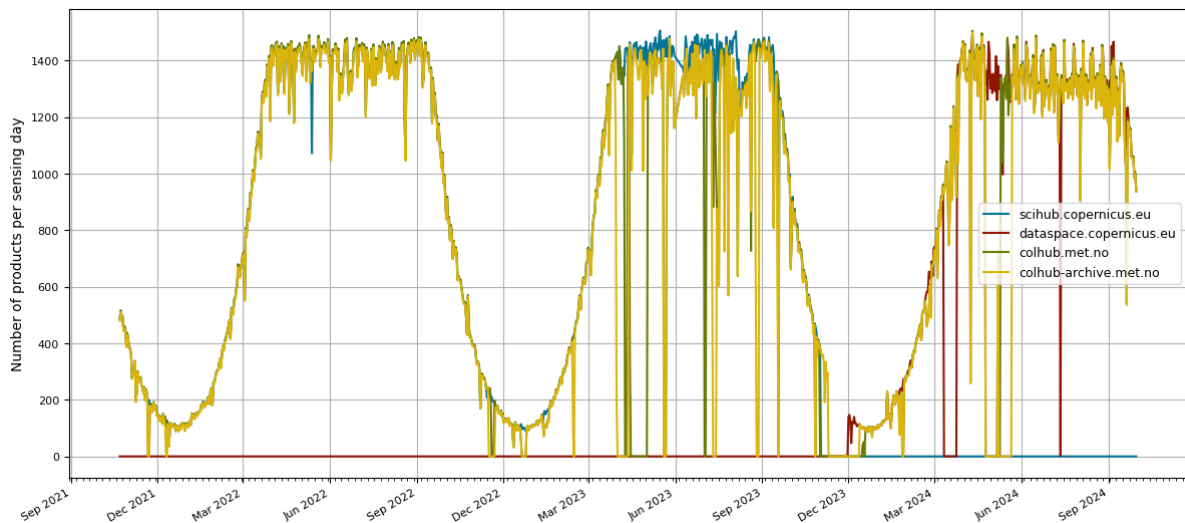
SENTINEL-2 LEVEL-2A PRODUCTS

This section shows the performance of MET Norway for Sentinel-2 Level-2A products. Both, an overall status and last month status are shown below.

Note that scihub is no longer in operation but is included for historical comparisons.

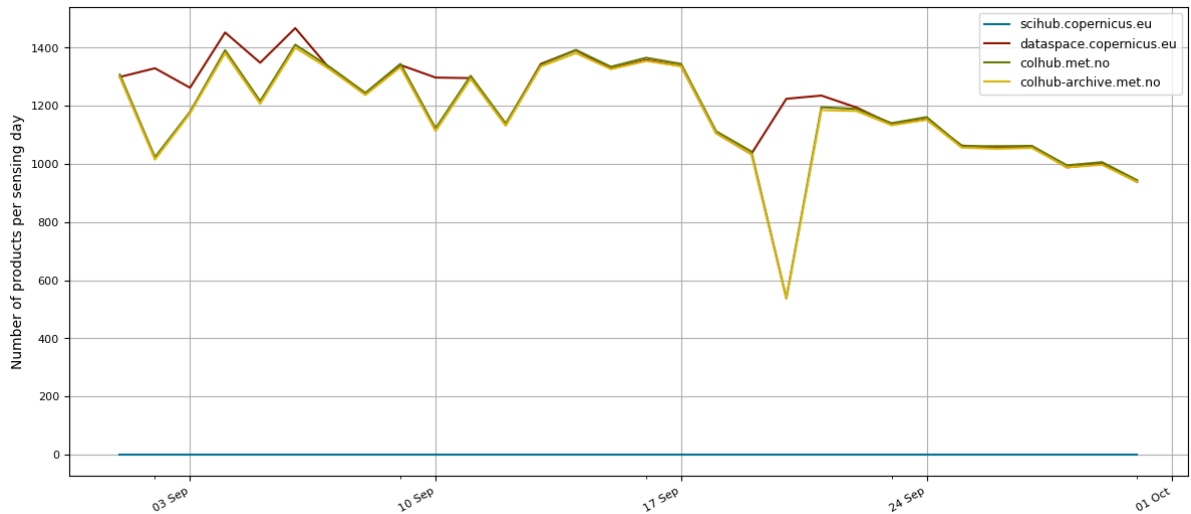
5.1 Products on portals

The following section contains an update on the Sentinel-2 Level-2A products included in the different FEs and BEs.



The figure above represents the overall number of products present in the different BackEnds and FrontEnds per day for Sentinel-2 Level-2A.

While the figure below shows a zoom on the last month.



A table is also included for more detailed information.

	colhub.met.no	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-09-01	1307.0	1299.0	1298.0
2024-09-02	1023.0	1329.0	1015.0
2024-09-03	1179.0	1262.0	1174.0
2024-09-04	1391.0	1452.0	1381.0
2024-09-05	1216.0	1348.0	1207.0
2024-09-06	1410.0	1467.0	1400.0
2024-09-07	1332.0	1325.0	1324.0
2024-09-08	1244.0	1243.0	1237.0
2024-09-09	1344.0	1340.0	1333.0
2024-09-10	1122.0	1297.0	1113.0
2024-09-11	1303.0	1295.0	1293.0
2024-09-12	1139.0	1135.0	1131.0
2024-09-13	1341.0	1344.0	1335.0
2024-09-14	1392.0	1391.0	1381.0
2024-09-15	1334.0	1328.0	1326.0
2024-09-16	1365.0	1357.0	1354.0
2024-09-17	1344.0	1337.0	1336.0
2024-09-18	1112.0	1106.0	1105.0
2024-09-19	1043.0	1034.0	1034.0
2024-09-20	539.0	1224.0	536.0
2024-09-21	1195.0	1235.0	1185.0
2024-09-22	1189.0	1194.0	1182.0
2024-09-23	1140.0	1137.0	1133.0
2024-09-24	1161.0	1153.0	1152.0
2024-09-25	1061.0	1063.0	1056.0
2024-09-26	1061.0	1055.0	1052.0
2024-09-27	1062.0	1060.0	1055.0
2024-09-28	995.0	988.0	988.0
2024-09-29	1006.0	1001.0	997.0
2024-09-30	944.0	938.0	938.0

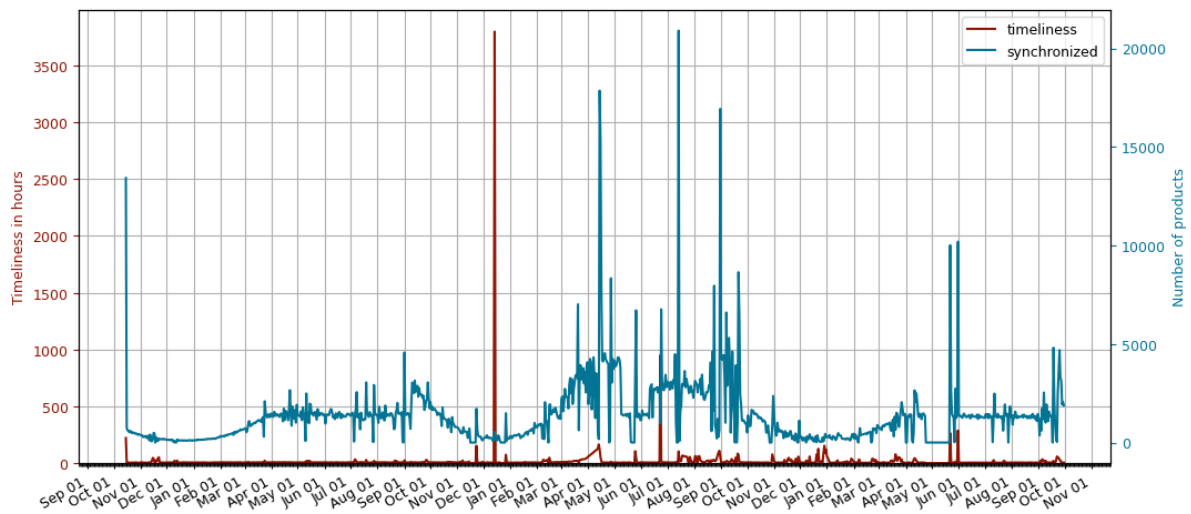
5.2 Missing products

The overall total number of Sentinel-2 Level-2A products is 8147655. The number of overall Sentinel-2 Level-2A missing products consists of 4906739 images. This represents that a 400% of the total was included in MET Norway DHR, while a -300% was not included.

The total number of Sentinel-2 level-2A products in September is 1268711. The number of Sentinel-2 level-2A missing products during September consists of 1145120 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

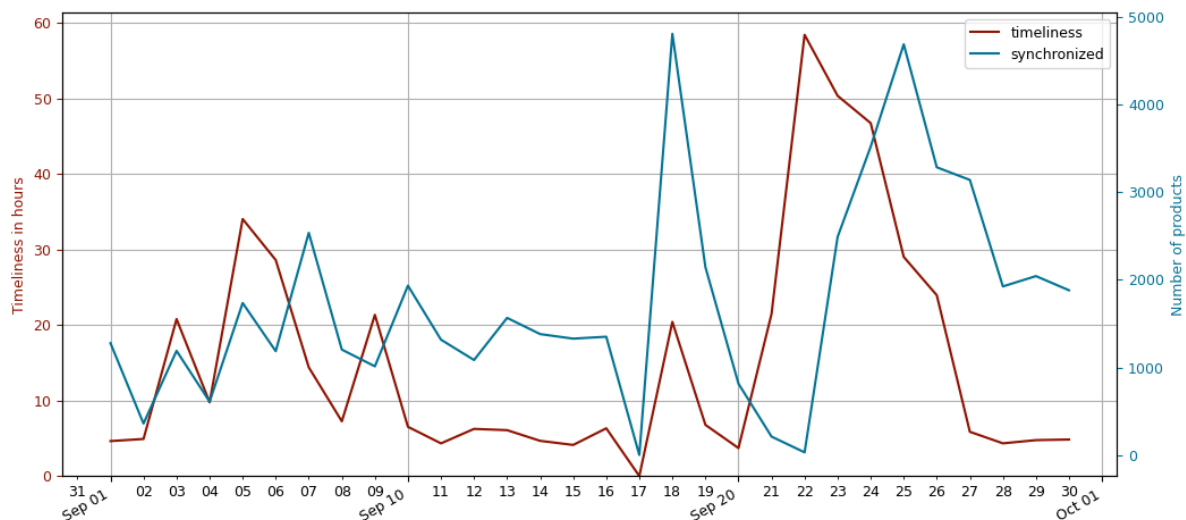
5.3 Data ingestion

In this section the time difference between sensing time and ingestion time at MET Norway is assessed. The ingestion time is the time at which a Sentinel product was downloaded to MET Norway BE and so, it is automatically available in at least one of the MET Norway FEs.



The figure above shows an overall status of the Sentinel-2 Level-2A synchronization between ESA datahub and MET Norway BE. The number of products synchronized and deleted are represented by the dark and light blue lines respectively. The red line represents the timeliness.

Following previous sections, the graph below shows a zoom in the last month for the synchronization between ESA datahub and MET Norway BE.



A more detailed information is given in the table below where the last month is assessed for products synchronized from ESA.

day	size	number	timeliness
2024-09-01	652.832984	1277	4.629054
2024-09-02	187.015095	359	4.911936
2024-09-03	686.290368	1189	20.792007
2024-09-04	309.157023	609	9.762772
2024-09-05	1046.451145	1735	34.040061
2024-09-06	675.628209	1185	28.611510
2024-09-07	1465.623605	2536	14.400023
2024-09-08	685.601294	1203	7.250303
2024-09-09	627.888764	1012	21.351596
2024-09-10	1123.684111	1933	6.522643
2024-09-11	779.286611	1316	4.326190
2024-09-12	627.524547	1084	6.245251
2024-09-13	880.213330	1565	6.076272
2024-09-14	778.832177	1380	4.662047
2024-09-15	796.399452	1328	4.118246
2024-09-16	785.454160	1350	6.323021
2024-09-17	0.000000	0	0.000000
2024-09-18	2700.967840	4808	20.417499
2024-09-19	1223.439776	2144	6.776639
2024-09-20	498.946203	814	3.704419
2024-09-21	77.359124	210	21.464342
2024-09-22	11.546246	30	58.439062
2024-09-23	1445.176721	2490	50.356581
2024-09-24	1982.545995	3520	46.740992
2024-09-25	2792.712729	4688	29.020760
2024-09-26	1933.999099	3284	23.942829
2024-09-27	1743.215793	3140	5.862441
2024-09-28	1084.128039	1924	4.331498
2024-09-29	1140.505392	2042	4.755678
2024-09-30	1069.728491	1880	4.837913

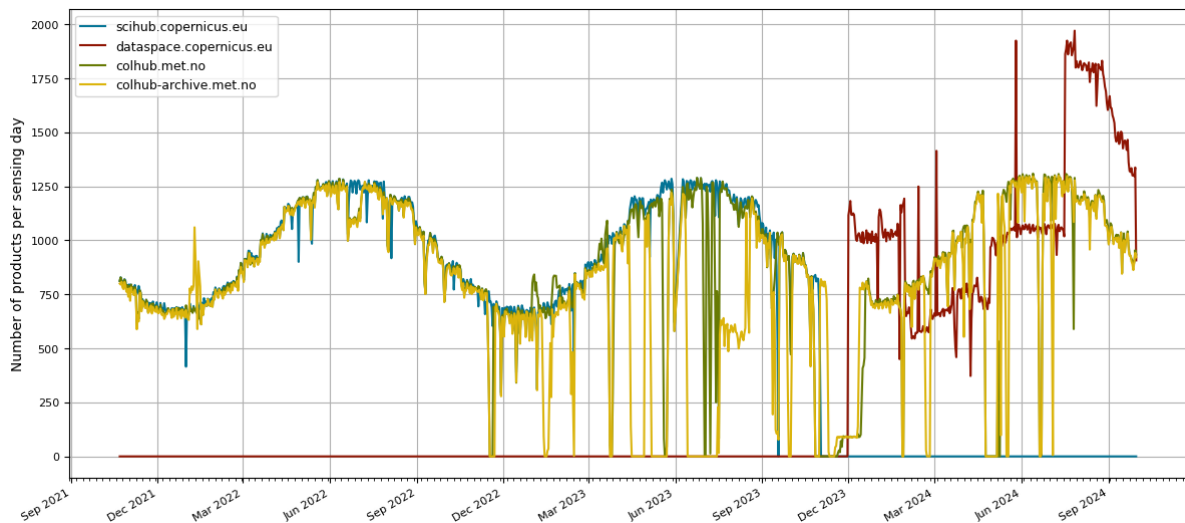
SENTINEL-3 PRODUCTS

This section shows the performance of MET Norway for Sentinel-3 products. Both, an overall status and last month status are shown below.

Note that scihub is no longer in operation but is included for historical comparisons.

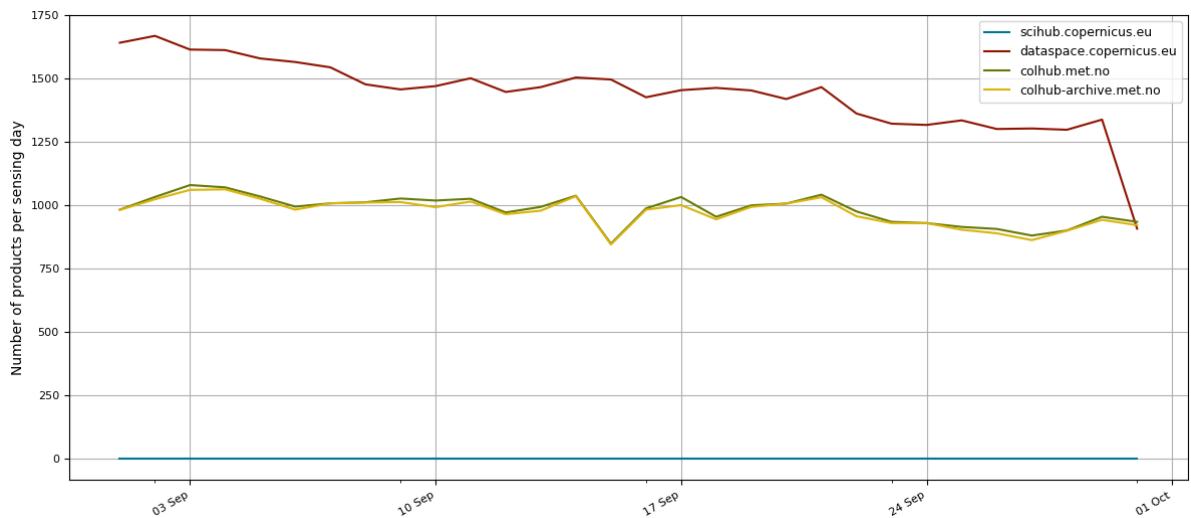
6.1 Products on portals

The following section contains an update on the Sentinel-3 products included in the different FEs and BEs.



The figure above represents the overall number of products present in the different BackEnds and FrontEnds per day for Sentinel-3.

While the figure below shows a zoom on the last month.



A table is also included for more detailed information.

	colhub.met.no	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-09-01	982.0	1640.0	981.0
2024-09-02	1032.0	1667.0	1023.0
2024-09-03	1079.0	1613.0	1060.0
2024-09-04	1070.0	1611.0	1062.0
2024-09-05	1034.0	1578.0	1025.0
2024-09-06	994.0	1564.0	982.0
2024-09-07	1007.0	1543.0	1007.0
2024-09-08	1011.0	1476.0	1010.0
2024-09-09	1026.0	1456.0	1012.0
2024-09-10	1018.0	1469.0	992.0
2024-09-11	1025.0	1500.0	1014.0
2024-09-12	971.0	1446.0	964.0
2024-09-13	993.0	1465.0	978.0
2024-09-14	1037.0	1503.0	1035.0
2024-09-15	848.0	1495.0	845.0
2024-09-16	987.0	1425.0	982.0
2024-09-17	1032.0	1453.0	1000.0
2024-09-18	954.0	1462.0	944.0
2024-09-19	999.0	1452.0	993.0
2024-09-20	1006.0	1418.0	1006.0
2024-09-21	1041.0	1465.0	1031.0
2024-09-22	975.0	1361.0	956.0
2024-09-23	934.0	1321.0	929.0
2024-09-24	929.0	1316.0	929.0
2024-09-25	914.0	1334.0	903.0
2024-09-26	906.0	1300.0	889.0
2024-09-27	880.0	1302.0	862.0
2024-09-28	900.0	1297.0	899.0
2024-09-29	954.0	1337.0	942.0
2024-09-30	934.0	907.0	921.0

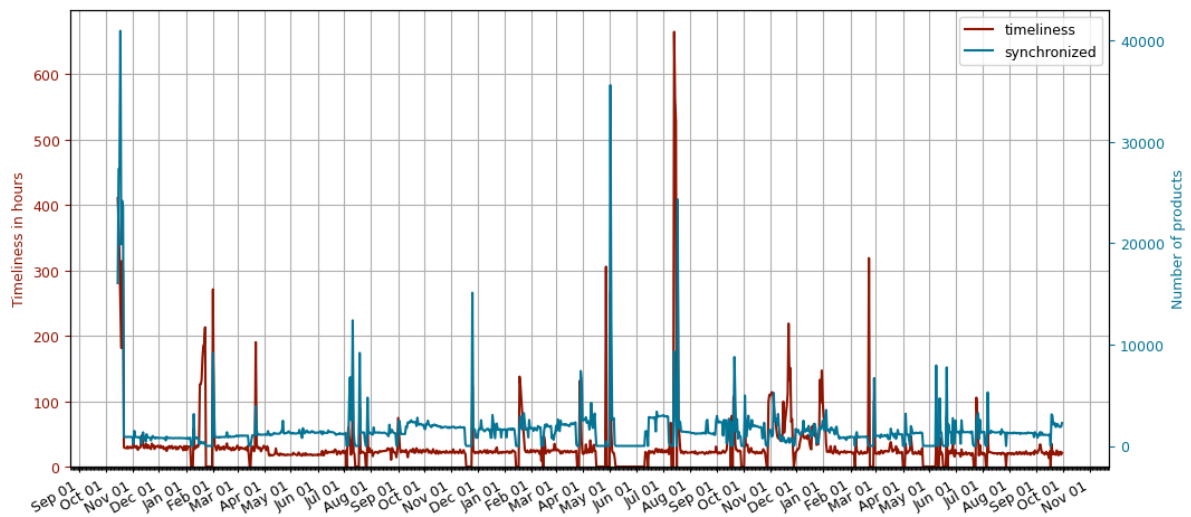
6.2 Missing products

The overall total number of Sentinel-3 products is 8147655. The number of overall Sentinel-3 missing products consists of 4906739 images. This represents that a 400% of the total was included in MET Norway DHR, while a -300% was not included.

The total number of Sentinel-3 products in September is 1268711. The number of Sentinel-3 missing products during September consists of 1145120 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

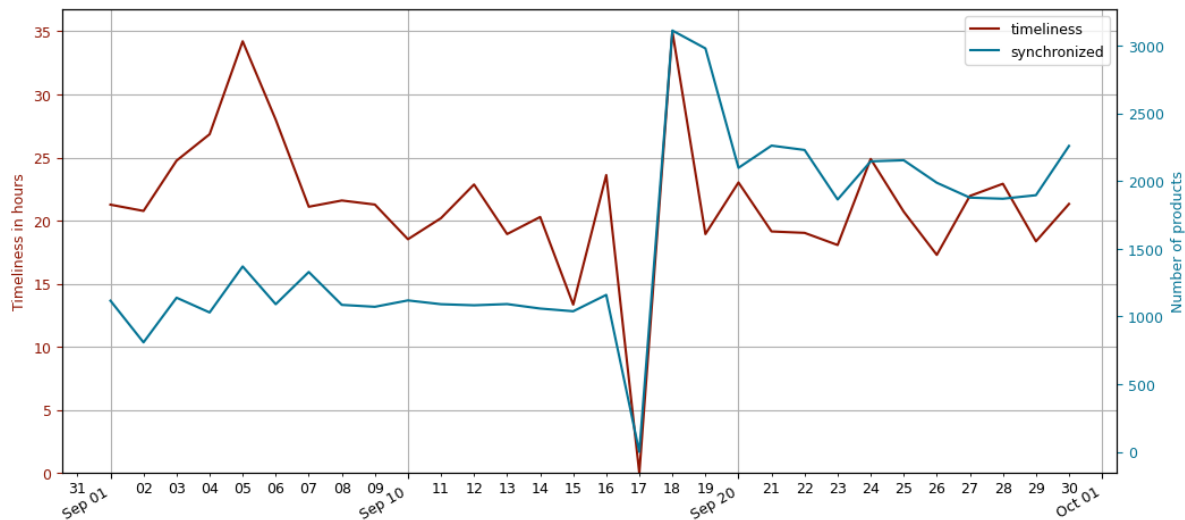
6.3 Data ingestion

In this section the time difference between sensing time and ingestion time at MET Norway is assessed. The ingestion time is the time at which a Sentinel product was downloaded to MET Norway BE and so, it is automatically available in at least one of the MET Norway FEs.



The figure above shows an overall status of the Sentinel-3 synchronization between ESA datahub and MET Norway BE. The number of products synchronized and deleted are represented by the dark and light blue lines respectively. The red line represents the timeliness.

Following previous sections, the graph below shows a zoom in the last month for the synchronization between ESA datahub and MET Norway BE.



A more detailed information is given in the table below where the last month is assessed for products synchronized from ESA.

day	size	number	timeliness
2024-09-01	378.261321	1117	21.264073
2024-09-02	281.227120	809	20.767449
2024-09-03	382.069696	1139	24.753757
2024-09-04	356.988948	1030	26.845753
2024-09-05	431.162055	1370	34.209813
2024-09-06	358.519963	1091	27.996797
2024-09-07	424.438039	1329	21.099342
2024-09-08	352.386129	1086	21.594414
2024-09-09	348.211386	1072	21.272652
2024-09-10	358.785377	1119	18.524721
2024-09-11	346.813755	1091	20.196051
2024-09-12	353.193786	1083	22.865196
2024-09-13	352.220968	1092	18.934677
2024-09-14	337.531296	1059	20.288519
2024-09-15	326.351208	1039	13.346062
2024-09-16	365.233613	1160	23.611000
2024-09-17	0.000000	0	0.000000
2024-09-18	988.001778	3112	34.983350
2024-09-19	934.261854	2980	18.932965
2024-09-20	653.819258	2098	23.023759
2024-09-21	712.331269	2262	19.142418
2024-09-22	700.915749	2230	19.029596
2024-09-23	618.758815	1864	18.066840
2024-09-24	716.343000	2146	24.886073
2024-09-25	692.616520	2154	20.706350
2024-09-26	659.576739	1988	17.284674
2024-09-27	620.648108	1878	21.953142
2024-09-28	606.056575	1870	22.921142
2024-09-29	642.344648	1896	18.359313
2024-09-30	689.230837	2260	21.321881

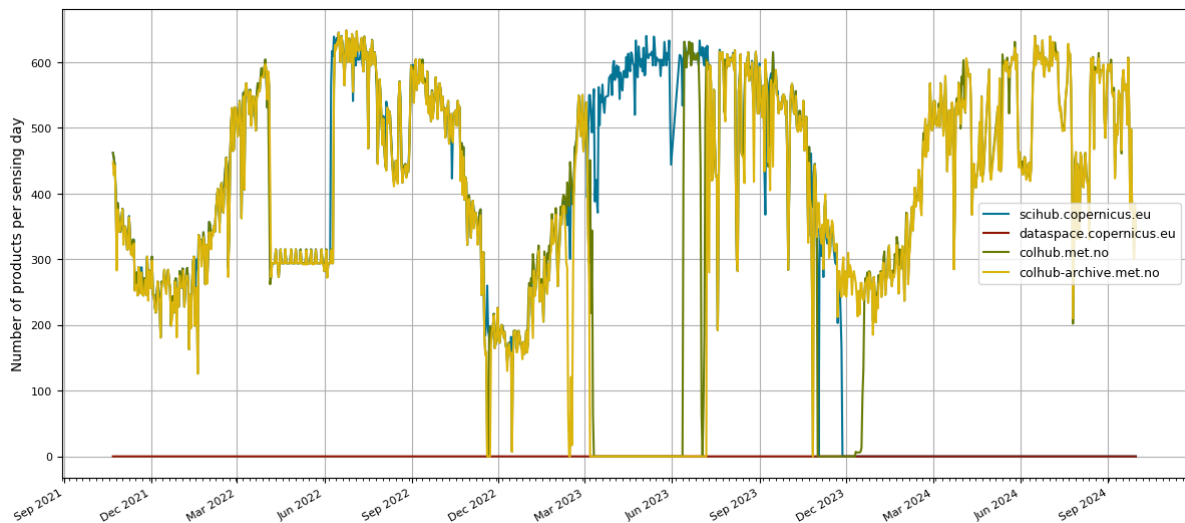
SENTINEL-5P PRODUCTS

This section shows the performance of MET Norway for Sentinel-5p products. Both, an overall status and last month status are shown below.

Note that scihub is no longer in operation but is included for historical comparisons.

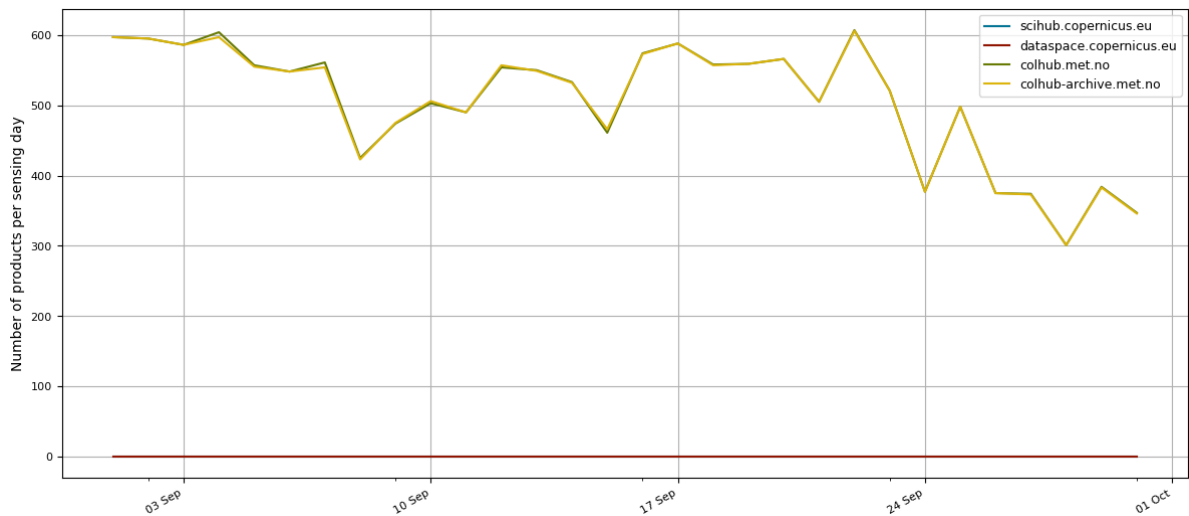
7.1 Products on portals

The following section contains an update on the Sentinel-5p products included in the different FEs and BEs.



The figure above represents the overall number of products present in the different BackEnds and FrontEnds per day for Sentinel-5p.

While the figure below shows a zoom on the last month.



A table is also included for more detailed information.

	colhub.met.no	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-09-01	597.0	0.0	597.0
2024-09-02	595.0	0.0	595.0
2024-09-03	586.0	0.0	586.0
2024-09-04	604.0	0.0	597.0
2024-09-05	557.0	0.0	555.0
2024-09-06	548.0	0.0	548.0
2024-09-07	561.0	0.0	554.0
2024-09-08	425.0	0.0	423.0
2024-09-09	474.0	0.0	475.0
2024-09-10	503.0	0.0	506.0
2024-09-11	490.0	0.0	490.0
2024-09-12	554.0	0.0	557.0
2024-09-13	550.0	0.0	549.0
2024-09-14	533.0	0.0	532.0
2024-09-15	461.0	0.0	466.0
2024-09-16	574.0	0.0	573.0
2024-09-17	588.0	0.0	588.0
2024-09-18	558.0	0.0	557.0
2024-09-19	559.0	0.0	559.0
2024-09-20	566.0	0.0	566.0
2024-09-21	505.0	0.0	505.0
2024-09-22	607.0	0.0	606.0
2024-09-23	521.0	0.0	521.0
2024-09-24	377.0	0.0	377.0
2024-09-25	498.0	0.0	498.0
2024-09-26	375.0	0.0	375.0
2024-09-27	374.0	0.0	373.0
2024-09-28	301.0	0.0	301.0
2024-09-29	384.0	0.0	383.0
2024-09-30	347.0	0.0	346.0

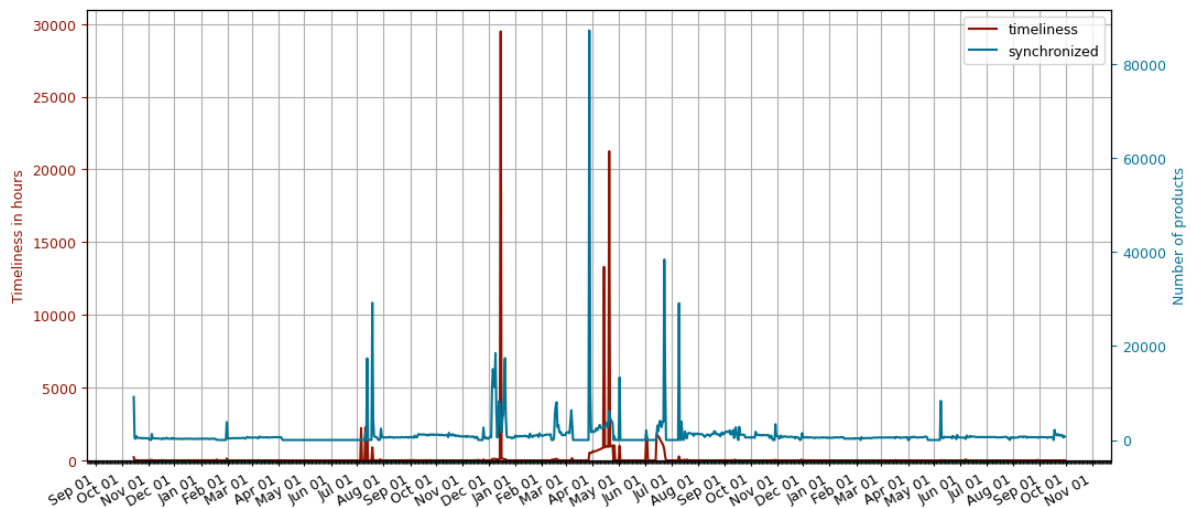
7.2 Missing products

The overall total number of Sentinel-5p products is 8147655. The number of overall Sentinel-5p missing products consists of 4906739 images. This represents that a 400% of the total was included in MET Norway DHR, while a -300% was not included.

The total number of Sentinel-5p products in September is 1268711. The number of Sentinel-5p missing products during September consists of 1145120 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

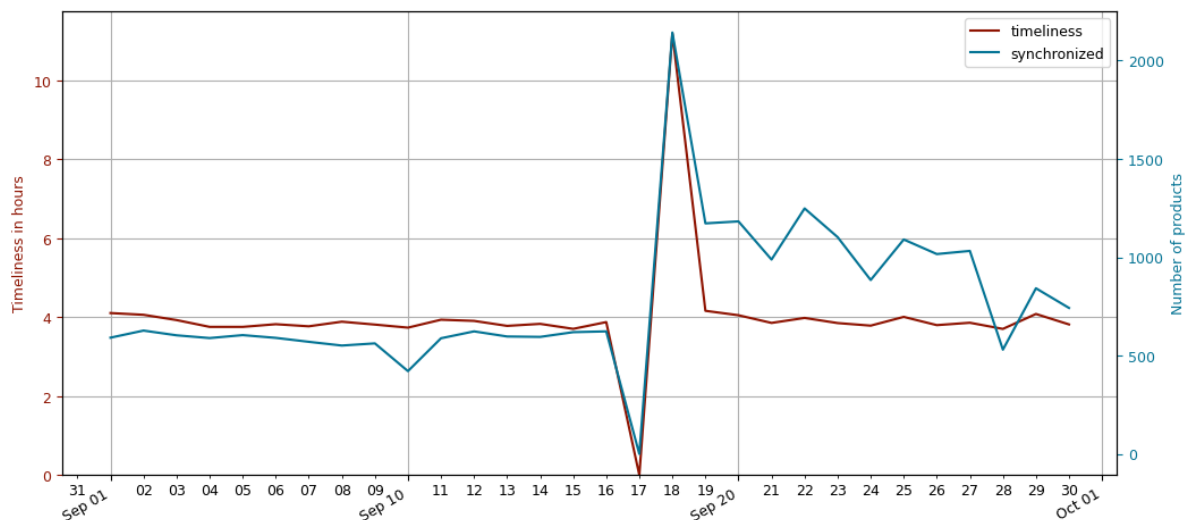
7.3 Data ingestion

In this section the time difference between sensing time and ingestion time at MET Norway is assessed. The ingestion time is the time at which a Sentinel product was downloaded to MET Norway BE and so, it is automatically available in at least one of the MET Norway FEs.



The figure above shows an overall status of the Sentinel-5p synchronization between ESA datahub and MET Norway BE. The number of products synchronized and deleted are represented by the dark and light blue lines respectively. The red line represents the timeliness.

Following previous sections, the graph below shows a zoom in the last month for the synchronization between ESA datahub and MET Norway BE.



A more detailed information is given in the table below where the last month are assessed for products synchronized from ESA.

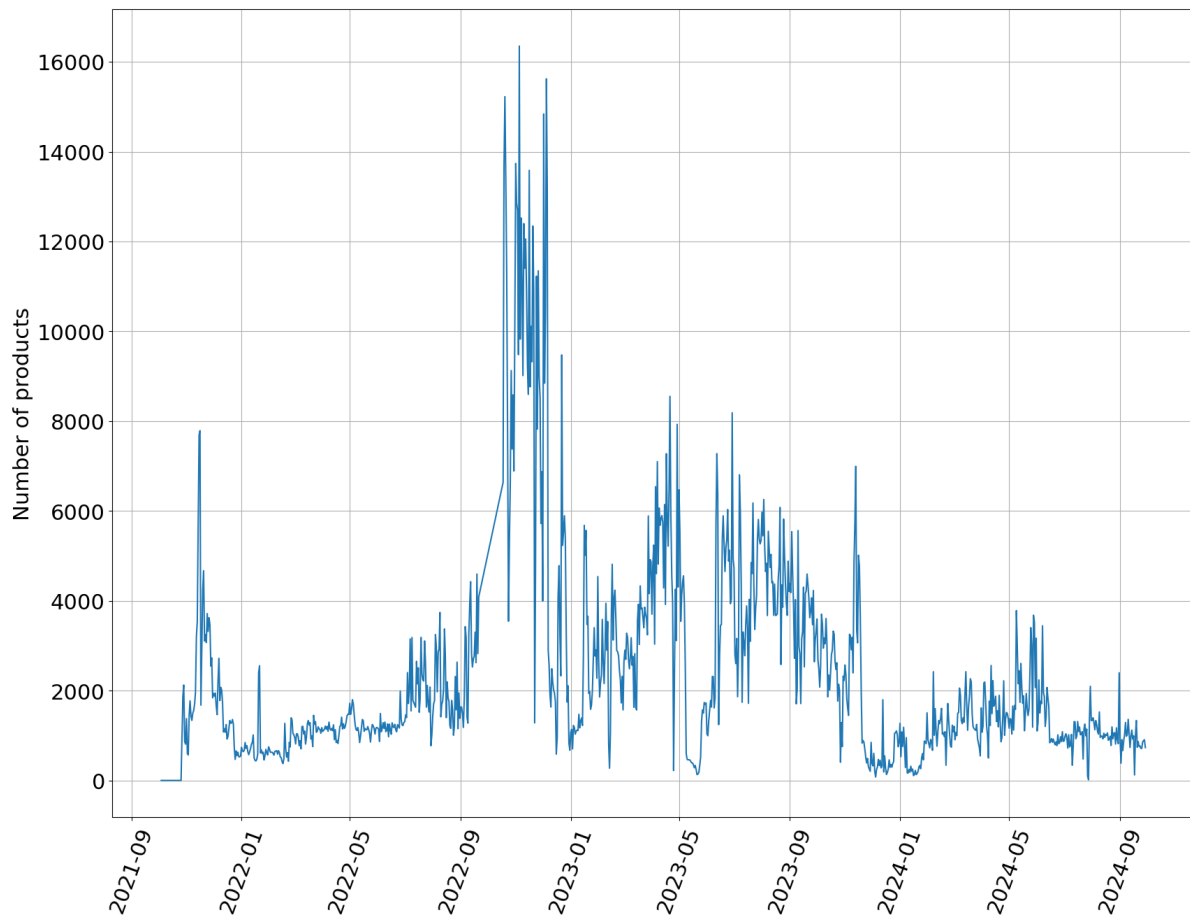
day	size	number	timeliness
2024-09-01	382.323803	591	4.104614
2024-09-02	409.308373	627	4.060646
2024-09-03	382.349753	603	3.926856
2024-09-04	380.354091	589	3.754281
2024-09-05	361.550104	604	3.754091
2024-09-06	385.142895	590	3.821941
2024-09-07	359.344329	570	3.768982
2024-09-08	351.696969	551	3.885766
2024-09-09	374.383674	562	3.812533
2024-09-10	306.189133	421	3.734936
2024-09-11	372.481713	588	3.935970
2024-09-12	414.803073	623	3.906017
2024-09-13	366.973617	597	3.779556
2024-09-14	412.260794	595	3.830579
2024-09-15	396.683110	619	3.704406
2024-09-16	385.894197	623	3.875299
2024-09-17	0.000000	0	0.000000
2024-09-18	1379.890140	2142	11.188907
2024-09-19	765.481132	1172	4.161601
2024-09-20	753.067991	1182	4.049508
2024-09-21	588.745452	988	3.854623
2024-09-22	928.203843	1248	3.981220
2024-09-23	717.988679	1102	3.850964
2024-09-24	538.971441	884	3.785712
2024-09-25	758.298396	1090	4.007829
2024-09-26	640.583951	1016	3.798496
2024-09-27	686.713537	1032	3.859104
2024-09-28	464.549815	530	3.703073
2024-09-29	777.798558	842	4.081590
2024-09-30	602.233748	742	3.816421

MONITORING DATA DOWNLOADS FROM COLHUB PORTALS

In this section the performance of the FrontEnds is analyzed, for both colhub.met.no and colhub-archive.met.no. The FEs performance is translated as user accessibility to the data which is one of the main goals for the project.

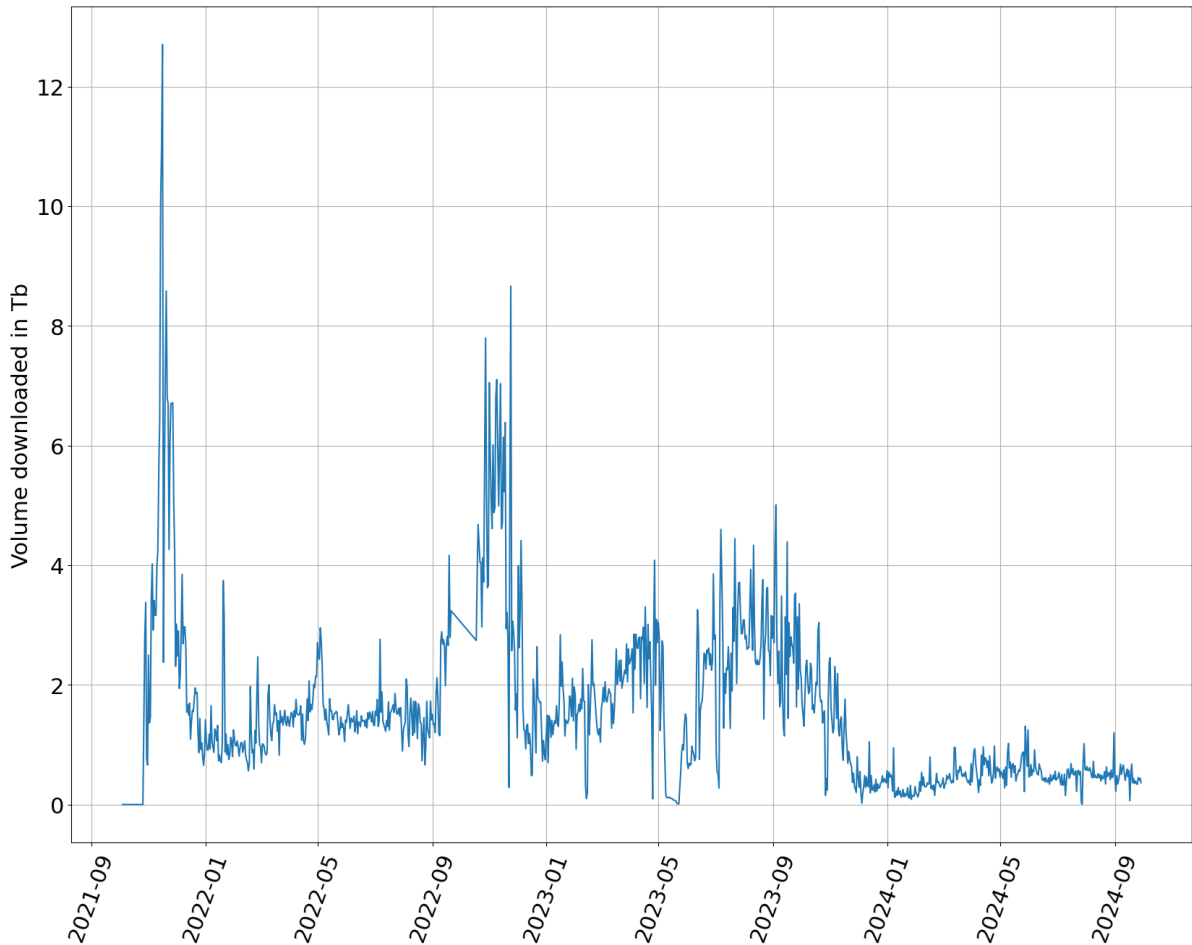
8.1 Portal: colhub.met.no

The first portal to analyze is colhub.met.no. The target of the analysis is to check the amount of data downloaded by users, but also the number of users accessing the datahub. Below the historical amount of data per day is represented.



The same data is also represented below, with a difference. This time the data is not accounted by number, but by volume. Although both graphs show similar trends, they are not exactly equal due to the variability in the ratio volume per product.

For instance, the seasonality of optical products could have an impact in the total volume of products.



The table below is also interesting. It shows the amount of products downloaded for each the different Sentinel products. As expected, S1 and S2 are the most used Sentinels. S3 is slightly used, while S5p is not used.

satellite	product_type	
S1	GRDH	248717
	GRDM	118343
	OCN	106793
	RAW	196353
	SLC	62845
S2	MSIL1C	588447
	MSIL1C_DTERRENG	3100
	MSIL2A	1143757
S3	OLCI_L1	9326
	OLCI_L2	490
	SLSTR_L1	16411
	SLSTR_L2	12
	SRAL_L1	23
	SRAL_L2	85
	SYN_L2	41
S5	NRTI_L2	10861
	OFFL_L1B	3
	OFFL_L2	11
dtype: int64		

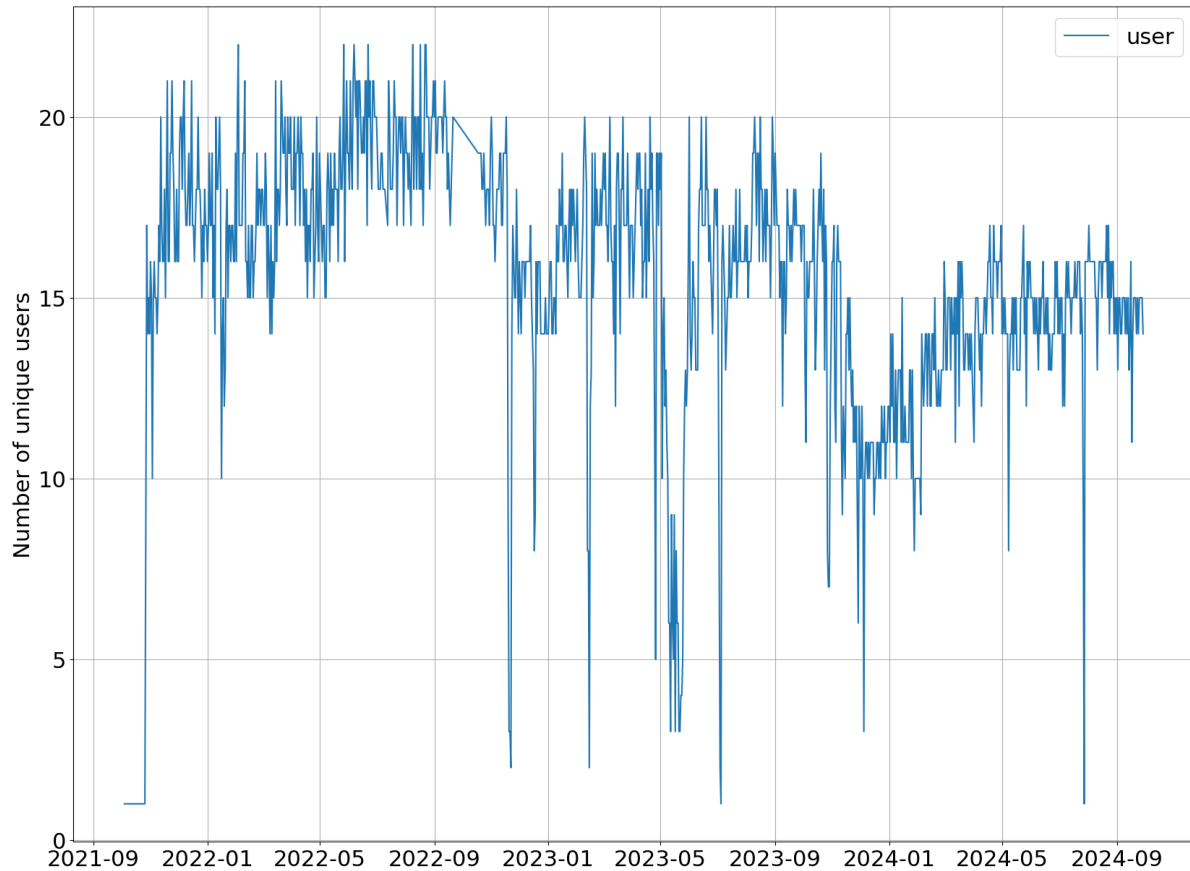
The following table shows the total downloaded volume of data in Tb per month. Here the seasonality of some Sentinel products can affect the final numbers.

```

download_time  download_time
2021           10           7.588303
              11          158.654049
              12           57.675128
2022           1           36.406545
              2           29.798405
              3           39.869718
              4           46.768604
              5           51.219186
              6           42.277098
              7           44.565096
              8           42.852304
              9           47.447532
             10           60.491409
             11          141.031091
             12           50.957670
2023           1           48.169138
              2           41.604374
              3           61.866205
              4           74.137962
              5           25.676479
              6           54.858885
              7           78.211367
              8           88.075235
              9           80.195622
             10           54.828457
             11           33.878596
             12           10.909848
2024           1            8.061366
              2            9.525797
              3           15.088652
              4           18.111391
              5           19.999434
              6           15.003660
              7           14.552019
              8           16.372706
              9           13.028849
Name: size, dtype: float64

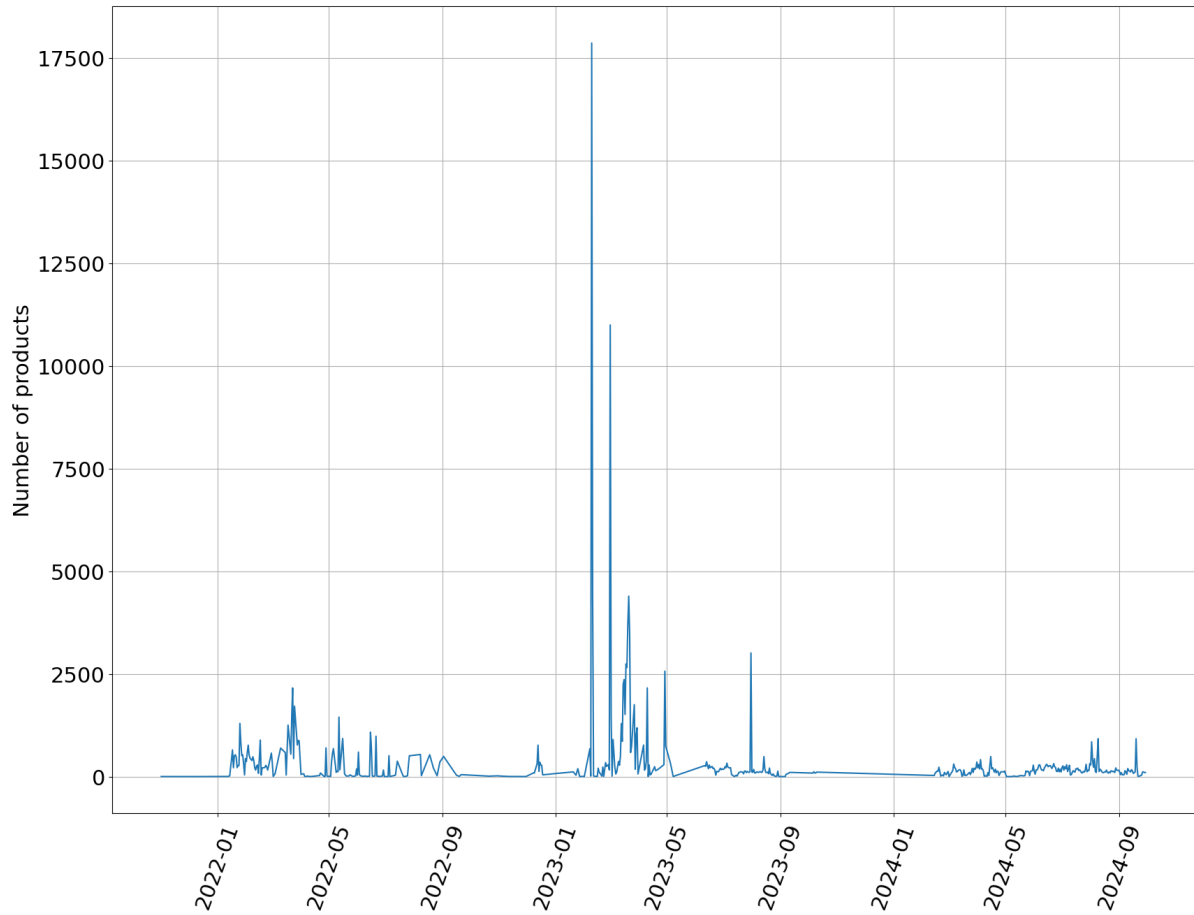
```

The number of users accessing and using the datahub is also important to be known. The plot below show the number of users per day. Some variability is represented in its numbers. Nevertheless, colhub.met.no is used by 15 to 20 users per day.



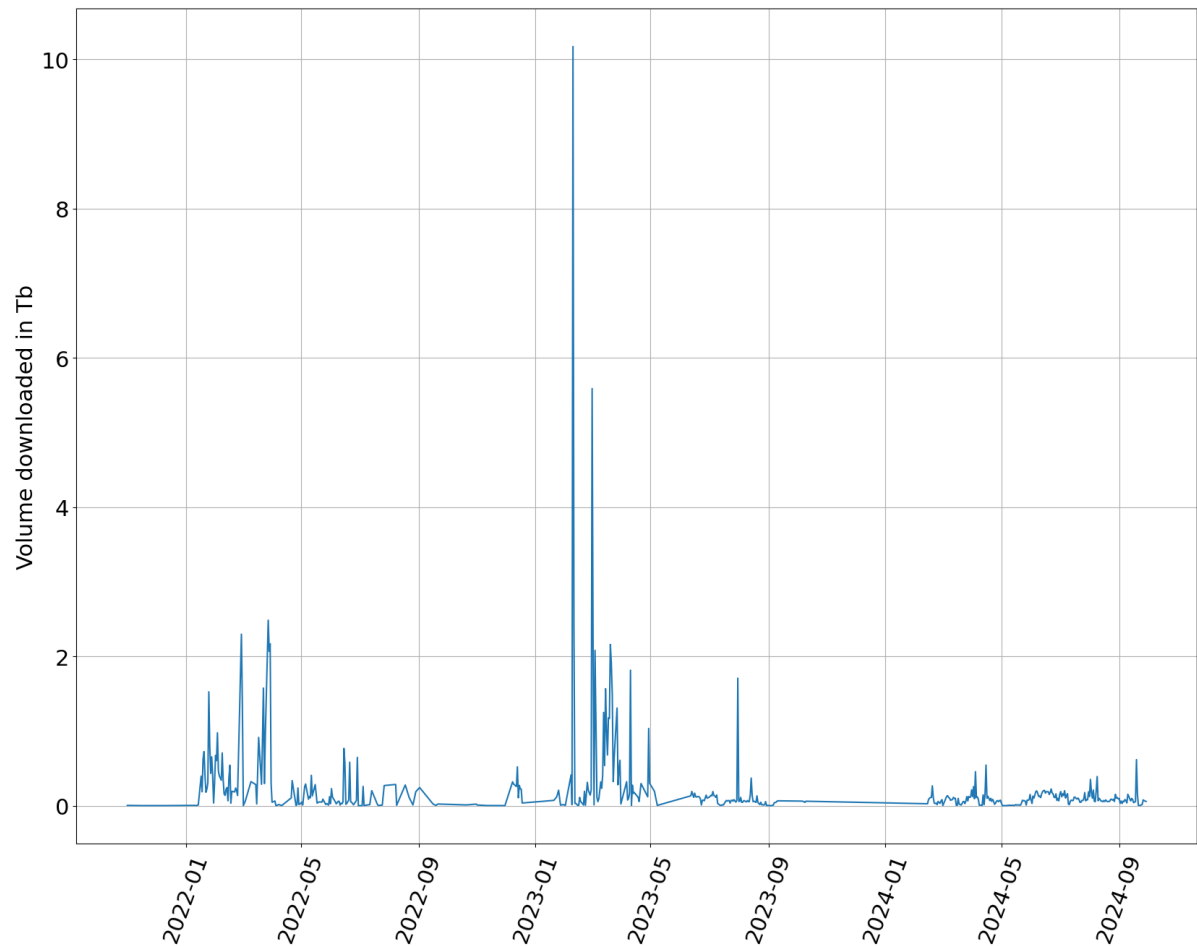
8.2 Portal: colhub-archive.met.no

Similar to [colhub.met.no](#), here it is presented the performance of [colhub-archive.met.no](#). First the number of products downloaded per day. As shown in the plot below, some days the number of products downloaded is null. This is a correct value which is not reflecting the performance of the FE. The archive is not as frequently accessed as [colhub.met.no](#). Only those users looking for historical data will used this portal.



As explained and shown in the previous section, the total volume downloaded is also shown in the graphic below.

```
Index(['size', 'download_duration'], dtype='object')
```



It is still interesting to see the number of products downloaded per product type. As shown in the previous section, S1 and S2 still are the most popular Sentinels.

satellite	product_type	
S1	GRDH	32424
	GRDM	10511
	OCN	1
	RAW	875
	SLC	3221
S2	MSIL1C	34662
	MSIL1C_DTERRENG	16832
	MSIL2A	66710
S3	OLCI_L1	4
	OLCI_L2	1
	SLSTR_L1	4022
	SRAL_L1	6
	SRAL_L2	160
S5	OFFL_L2	2
dtype: int64		

The table below shows the monthly retrieved volume of data in Tb.

download_time	download_time	
2021	December	0.000696

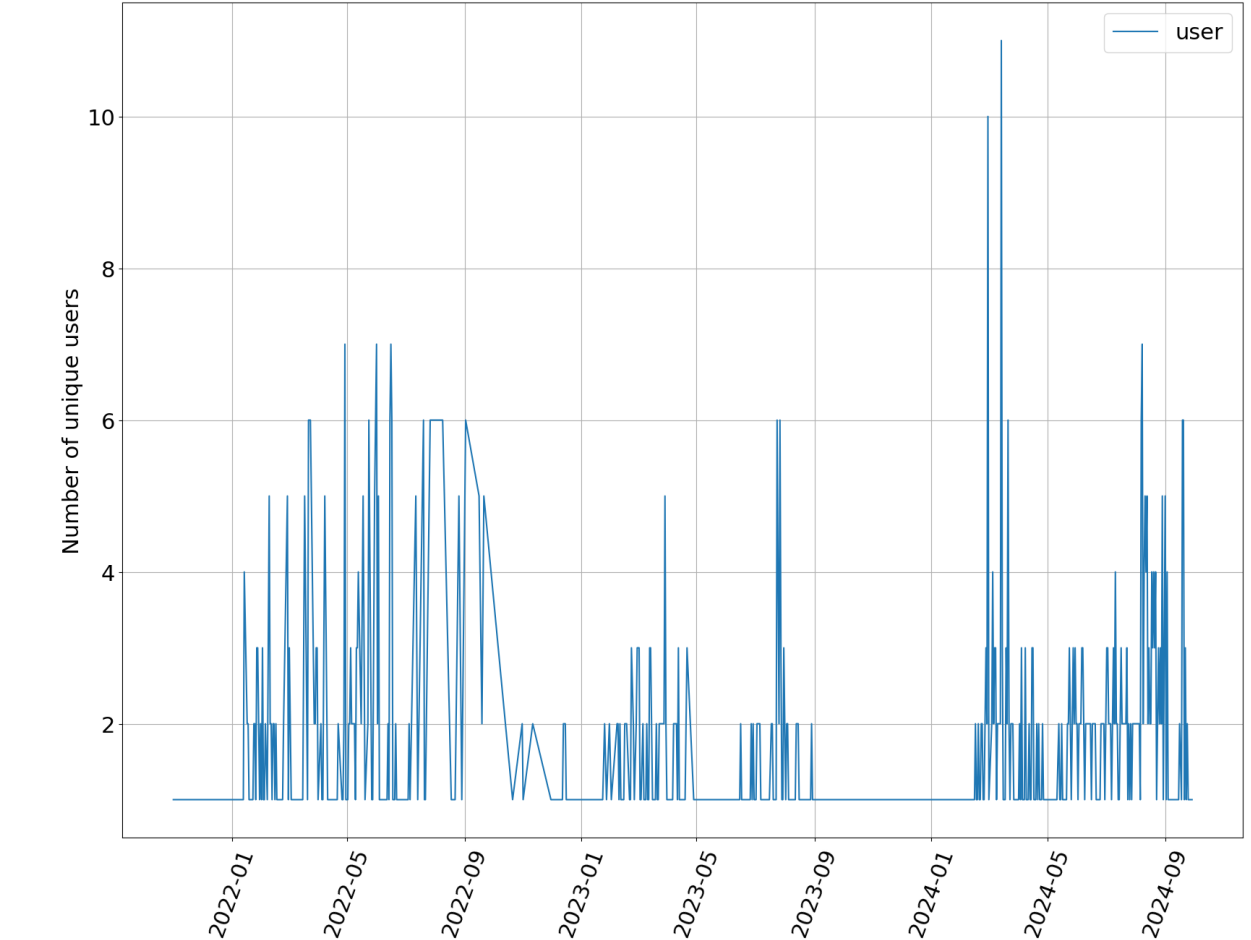
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(continued from previous page)

2022	November	0.005186
	April	0.858194
	August	0.874257
	December	2.247264
	February	9.514969
	January	7.210722
	July	0.771705
	June	3.787335
	March	13.999207
	May	2.258999
2023	November	0.011412
	October	0.030705
	September	0.289683
	April	5.010196
	August	1.931697
	February	14.316868
	January	0.417223
	July	3.804772
	June	2.082679
	March	27.805556
2024	May	0.196331
	October	0.276372
	September	0.220003
	April	3.181320
	August	3.355430
	February	1.177107
	July	3.158623
	June	4.358417
	March	2.230899
	May	0.761791
	September	2.295378

Name: size, dtype: float64

The last graphic show the number of users accessing and downloading data from the portal. Again, the discontinuity in numbers of users it is not a sign of the portal performance.



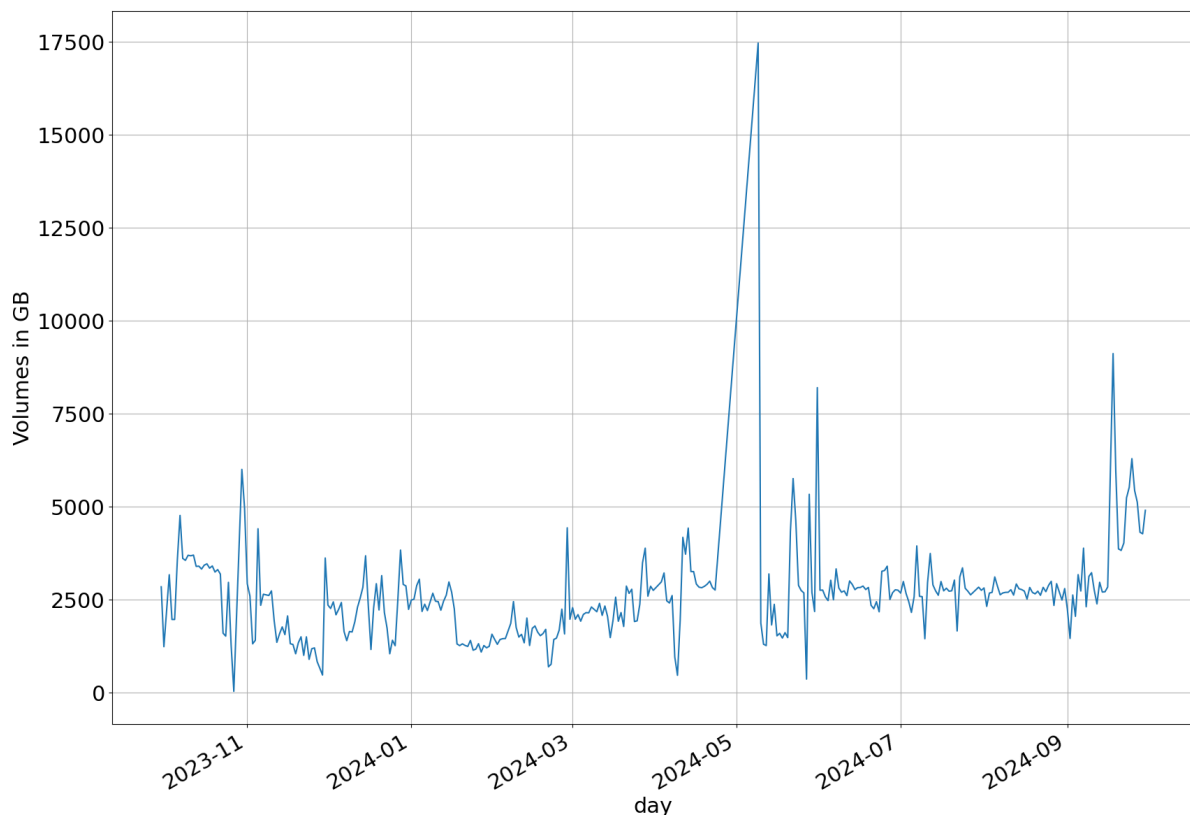
DATA VOLUMES FOR NBS

Satellite data storage requires an important amount of disk space, especially high resolution products such as the ones produced by the Sentinel constellation. This also represents an economical cost. Hence, it is very important to keep track of the total volume of data stored at MET Norway premises. In this section those numbers are shown.

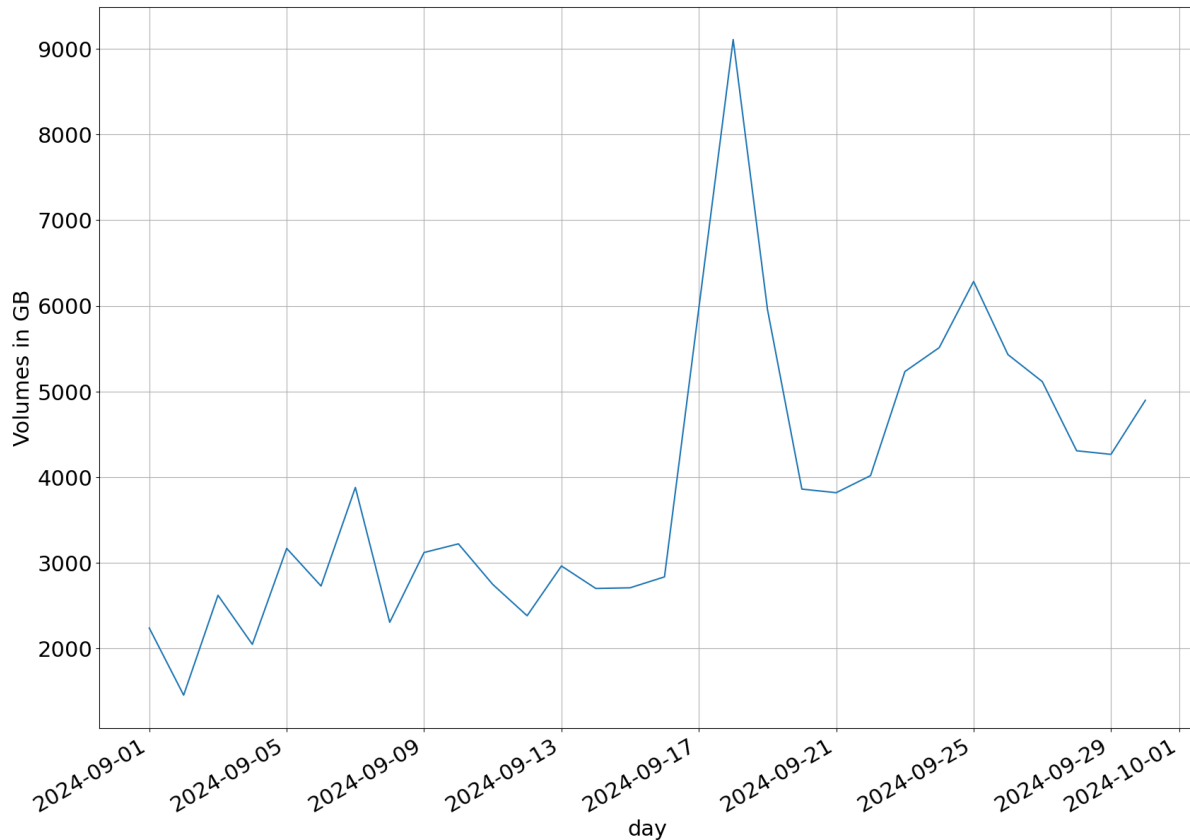
9.1 Volumes for AOI backends

Two type of products can be differentiated, products acquired from ESA datahub which keep the original format and Sentinel products transformed into NetCDF-CF. Those directly acquired from ESA are store at MET Norway BE for the AOI. Later on, they are made available to users through colhub-archive and colhub FEs.

The total amount of Sentinel products for the AOI, located in the AOI BE, represents 5047 TB



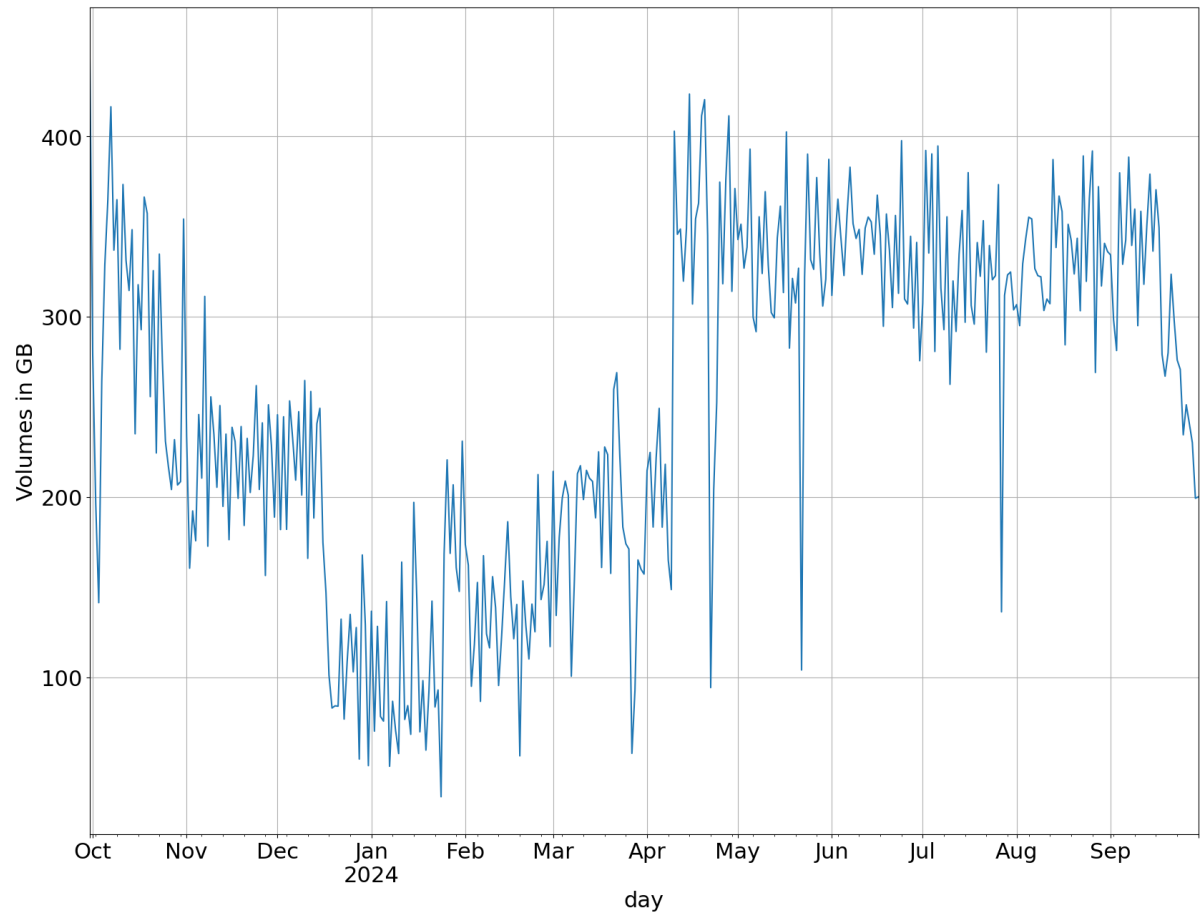
In the graphic above the volume of data per day in GB is shown for the last year. Here we can observed seasonality due to optical sensor products. The table below shows the same information for the last month.



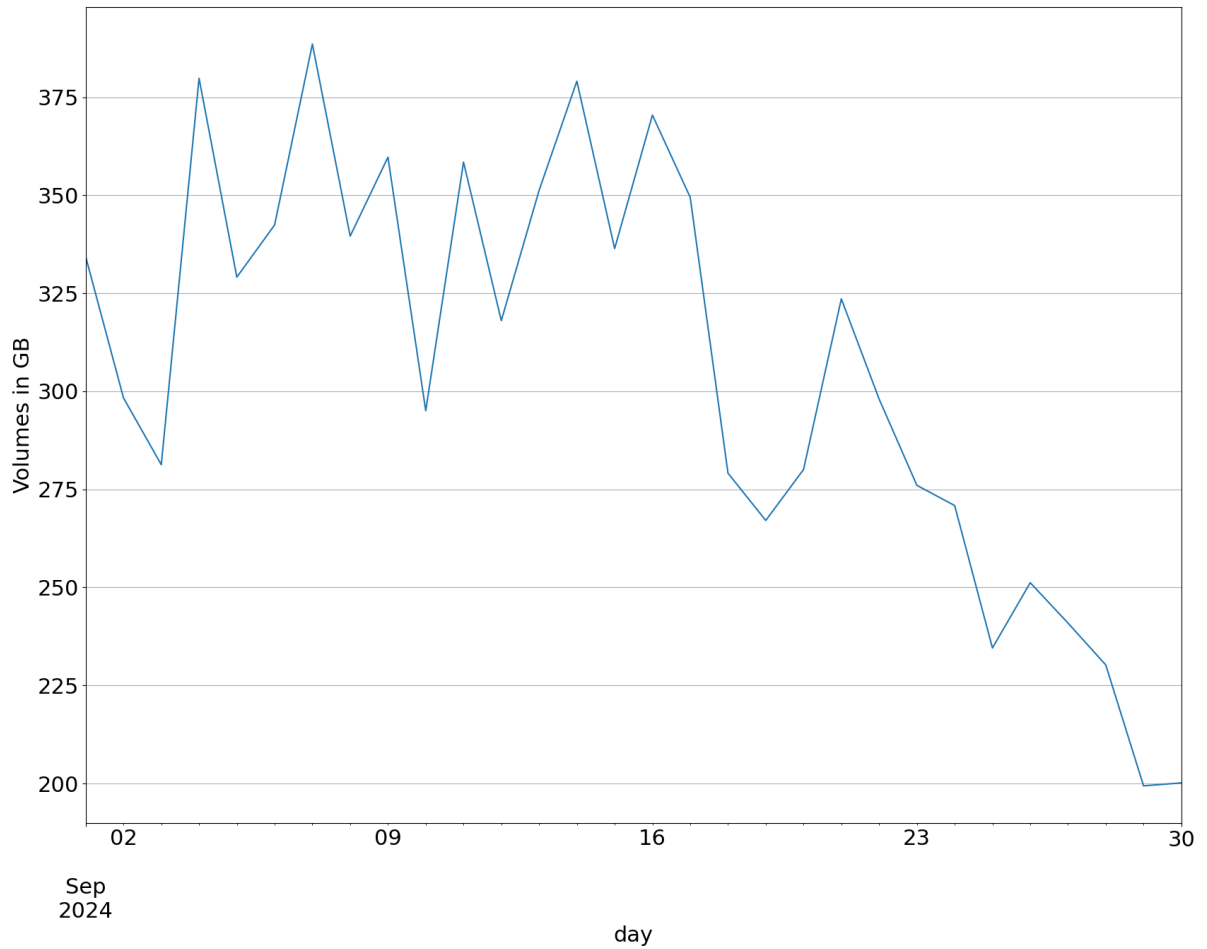
9.2 Volume for netcdf products

The products converted to NetCDF-CF are S1 and S2 products. These Sentinel datasets are served as SAFE format by ESA. This is not always convenient for users. Therefore as part of the NBS project, one of the MET Norway tasks as operator is to translate those products into NetCDF-CF.

The total amount of Sentinel-1 and Sentinel-2 products for the AOI transformed to NetCDF represents 917 TB

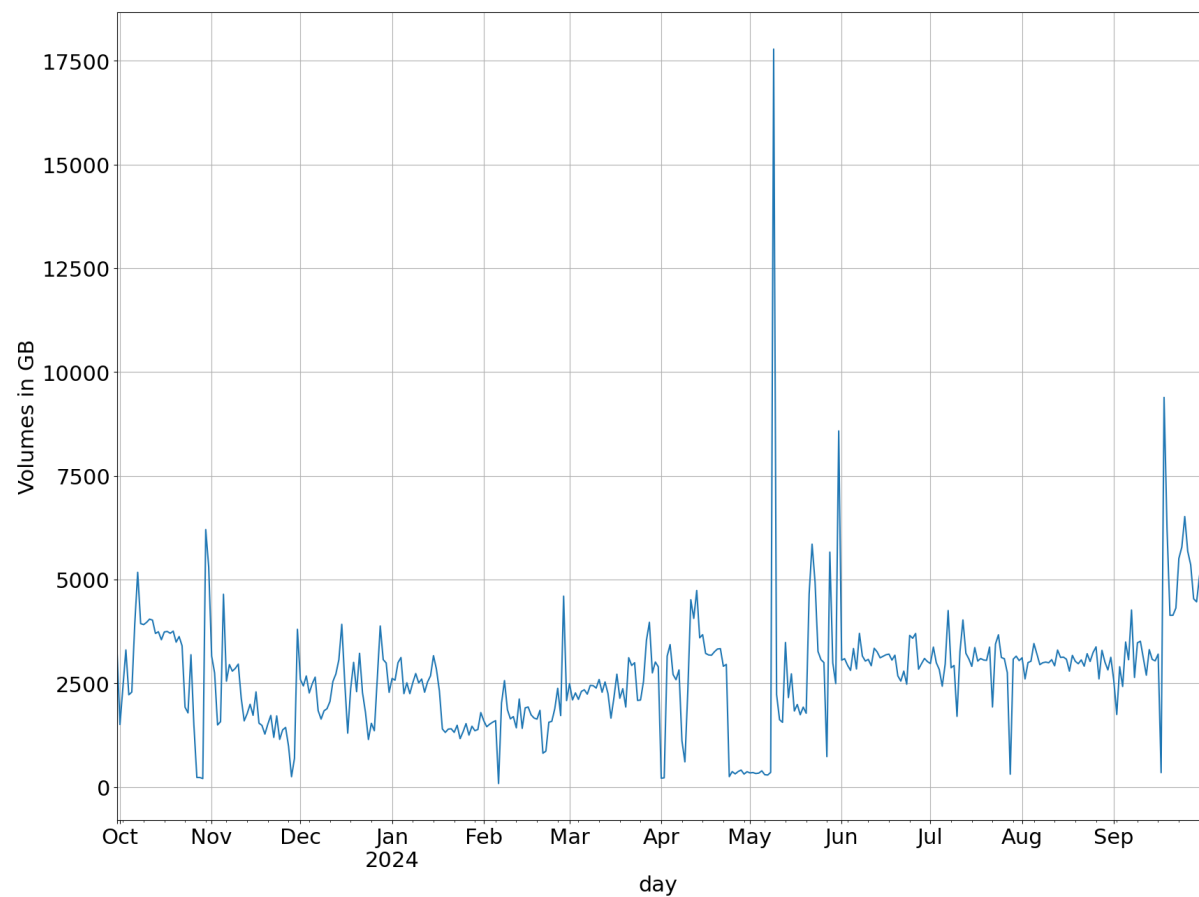


In the graphic above the volume of NetCDF-CF data per day in GB is shown for the last year. Here we can observed seasonality due to optical sensor products. The table below shows the same information for the last 30 days.



9.3 Totals

Finally, the total amount of disk space dedicated to the NBS project, including either products in SAFE and NetCDF formats, represents 5965 TB



In the graphic above the total volume of data per day in GB is shown for the last year. Here we can observed seasonality due to optical sensor products again. The table below shows the same information for the last month.

day	product_type	action	volume	number	timeliness
2024-09-01	GRDH	fscanner	43.483601	15.0	0.803748
2024-09-01	GRDH	synchronized	31.630168	19.0	0.986530
2024-09-01	GRDM	fscanner	4.188328	24.0	0.561039
2024-09-01	GRDM	synchronized	5.656057	14.0	1.123768
2024-09-01	OCN	synchronized	0.687809	28.0	1.076639
2024-09-01	RAW	synchronized	47.524480	38.0	0.832221
2024-09-01	SLC	synchronized	171.559952	23.0	1.351909
2024-09-02	GRDH	fscanner	46.798806	16.0	0.867331
2024-09-02	GRDH	synchronized	44.679346	27.0	1.252422
2024-09-02	GRDM	fscanner	2.265397	21.0	1.078596
2024-09-02	GRDM	synchronized	6.831693	18.0	1.158675
2024-09-02	OCN	synchronized	0.841604	37.0	1.302849
2024-09-02	RAW	synchronized	47.585257	36.0	1.083569
2024-09-02	SLC	synchronized	211.146471	28.0	1.474832
2024-09-03	GRDH	fscanner	70.996483	25.0	1.604576
2024-09-03	GRDH	synchronized	75.542679	46.0	9.291699
2024-09-03	GRDM	fscanner	3.411457	28.0	0.875698
2024-09-03	GRDM	synchronized	7.292190	18.0	4.581331
2024-09-03	OCN	synchronized	1.103548	57.0	6.201748
2024-09-03	RAW	synchronized	94.867527	69.0	7.556501
2024-09-03	SLC	synchronized	366.665759	49.0	7.354178

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2024-09-04	GRDH	fscanner	50.328545	17.0	0.694875
2024-09-04	GRDH	synchronized	84.852208	52.0	6.008871
2024-09-04	GRDM	fscanner	8.120172	52.0	0.698940
2024-09-04	GRDM	synchronized	7.063206	18.0	4.993011
2024-09-04	OCN	synchronized	1.060290	48.0	5.235643
2024-09-04	RAW	synchronized	99.749797	72.0	4.405796
2024-09-04	SLC	synchronized	408.977003	55.0	7.730360
2024-09-05	GRDH	fscanner	68.354758	22.0	0.876958
2024-09-05	GRDH	synchronized	84.767536	51.0	7.668908
2024-09-05	GRDM	fscanner	3.700402	34.0	0.763883
2024-09-05	GRDM	synchronized	4.527433	12.0	5.325187
2024-09-05	OCN	synchronized	0.971747	52.0	4.672049
2024-09-05	RAW	synchronized	84.645745	60.0	4.013412
2024-09-05	SLC	synchronized	429.054775	57.0	4.568468
2024-09-06	GRDH	fscanner	46.070939	15.0	0.996069
2024-09-06	GRDH	synchronized	72.887184	44.0	14.252009
2024-09-06	GRDM	fscanner	2.738585	25.0	0.714404
2024-09-06	GRDM	synchronized	6.746531	17.0	5.975341
2024-09-06	OCN	synchronized	0.932200	42.0	10.649854
2024-09-06	RAW	synchronized	84.972910	61.0	6.904530
2024-09-06	SLC	synchronized	246.276947	33.0	4.733427
2024-09-07	GRDH	fscanner	77.237830	24.0	0.916667
2024-09-07	GRDH	synchronized	123.503018	76.0	3.955469
2024-09-07	GRDM	fscanner	4.542358	42.0	0.762007
2024-09-07	GRDM	synchronized	5.582156	15.0	4.120683
2024-09-07	OCN	synchronized	1.305812	77.0	3.997018
2024-09-07	RAW	synchronized	126.091268	90.0	3.759850
2024-09-07	SLC	synchronized	458.885697	62.0	4.434454
2024-09-08	GRDH	fscanner	39.910224	15.0	0.610202
2024-09-08	GRDH	synchronized	65.090430	39.0	1.099256
2024-09-08	GRDM	fscanner	6.614395	34.0	0.611730
2024-09-08	GRDM	synchronized	9.449203	24.0	0.738877
2024-09-08	OCN	synchronized	1.269843	56.0	1.129785
2024-09-08	RAW	synchronized	82.309055	62.0	0.949632
2024-09-08	SLC	synchronized	238.291920	31.0	1.664867
2024-09-09	GRDH	fscanner	68.066516	25.0	0.672502
2024-09-09	GRDH	synchronized	88.314891	54.0	1.228962
2024-09-09	GRDM	fscanner	6.009557	41.0	0.616853
2024-09-09	GRDM	synchronized	5.586092	15.0	0.639471
2024-09-09	OCN	synchronized	0.927446	47.0	1.156002
2024-09-09	RAW	synchronized	103.544685	74.0	1.014361
2024-09-09	SLC	synchronized	681.081369	91.0	25.492757
2024-09-10	GRDH	fscanner	62.515131	22.0	0.791171
2024-09-10	GRDH	synchronized	107.497066	64.0	2.101450
2024-09-10	GRDM	fscanner	6.690336	38.0	0.763813
2024-09-10	GRDM	synchronized	7.190450	20.0	0.631929
2024-09-10	OCN	synchronized	1.326191	70.0	1.383615
2024-09-10	RAW	synchronized	126.801163	91.0	1.190124
2024-09-10	SLC	synchronized	516.236872	67.0	2.083680
2024-09-11	GRDH	fscanner	57.450486	21.0	0.703565
2024-09-11	GRDH	synchronized	85.506180	51.0	1.056812
2024-09-11	GRDM	fscanner	5.686789	41.0	0.601818
2024-09-11	GRDM	synchronized	7.231139	20.0	0.993723
2024-09-11	OCN	synchronized	1.087362	52.0	1.158285
2024-09-11	RAW	synchronized	95.696733	69.0	0.964529
2024-09-11	SLC	synchronized	402.120286	53.0	1.436526

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2024-09-12	GRDH	fscanner	67.466887	22.0	0.728541
2024-09-12	GRDH	synchronized	73.496772	45.0	1.061380
2024-09-12	GRDM	fscanner	6.838881	39.0	0.665317
2024-09-12	GRDM	synchronized	6.720392	17.0	0.629217
2024-09-12	OCN	synchronized	0.993637	48.0	1.079123
2024-09-12	RAW	synchronized	86.673699	64.0	0.870514
2024-09-12	SLC	synchronized	390.635336	52.0	1.445141
2024-09-13	GRDH	fscanner	48.435220	17.0	0.832387
2024-09-13	GRDH	synchronized	65.584779	39.0	1.122352
2024-09-13	GRDM	fscanner	6.164725	33.0	0.803664
2024-09-13	GRDM	synchronized	10.821296	29.0	0.743123
2024-09-13	OCN	synchronized	1.342399	58.0	1.042278
2024-09-13	RAW	synchronized	87.843136	68.0	0.819811
2024-09-13	SLC	synchronized	328.526817	43.0	1.475013
2024-09-14	GRDH	fscanner	69.413976	22.0	0.826676
2024-09-14	GRDH	synchronized	67.493099	41.0	1.282672
2024-09-14	GRDM	fscanner	3.701304	34.0	0.820751
2024-09-14	GRDM	synchronized	5.303763	14.0	0.970984
2024-09-14	OCN	synchronized	0.818055	41.0	1.195659
2024-09-14	RAW	synchronized	75.883978	55.0	0.931154
2024-09-14	SLC	synchronized	327.313008	44.0	1.607698
2024-09-15	GRDH	fscanner	46.679780	17.0	0.727309
2024-09-15	GRDH	synchronized	73.953294	45.0	1.071883
2024-09-15	GRDM	fscanner	4.105994	29.0	0.662259
2024-09-15	GRDM	synchronized	7.718317	19.0	1.710610
2024-09-15	OCN	synchronized	1.167199	56.0	1.138122
2024-09-15	RAW	synchronized	86.315230	63.0	0.896480
2024-09-15	SLC	synchronized	338.129741	45.0	1.739011
2024-09-16	GRDH	fscanner	63.783147	23.0	0.683956
2024-09-16	GRDH	synchronized	82.868779	50.0	0.990385
2024-09-16	GRDM	fscanner	6.872719	46.0	0.670956
2024-09-16	GRDM	synchronized	7.309233	19.0	1.066104
2024-09-16	OCN	synchronized	1.100941	52.0	1.183451
2024-09-16	RAW	synchronized	97.330206	71.0	0.938404
2024-09-16	SLC	synchronized	414.748310	55.0	1.747471
2024-09-18	GRDH	fscanner	103.053928	34.0	15.423588
2024-09-18	GRDH	synchronized	155.718778	95.0	10.499001
2024-09-18	GRDM	fscanner	5.882673	54.0	15.396714
2024-09-18	GRDM	synchronized	9.061293	24.0	11.931497
2024-09-18	OCN	synchronized	1.724024	92.0	12.912760
2024-09-18	RAW	synchronized	161.868142	115.0	10.384640
2024-09-18	SLC	synchronized	799.378858	107.0	10.918072
2024-09-18	Unknown	deleted	0.000000	6.0	0.000000
2024-09-18	GRDH	fscanner	103.053928	34.0	15.423588
2024-09-18	GRDH	synchronized	155.718778	95.0	10.499001
2024-09-18	GRDM	fscanner	5.882673	54.0	15.396714
2024-09-18	GRDM	synchronized	9.061293	24.0	11.931497
2024-09-18	OCN	synchronized	1.724024	92.0	12.912760
2024-09-18	RAW	synchronized	161.868142	115.0	10.384640
2024-09-18	SLC	synchronized	799.378858	107.0	10.918072
2024-09-18	Unknown	deleted	0.000000	6.0	0.000000
2024-09-19	GRDH	fscanner	76.379572	25.0	0.936082
2024-09-19	GRDH	synchronized	99.766197	61.0	1.056664
2024-09-19	GRDM	fscanner	3.271037	31.0	0.686273
2024-09-19	GRDM	synchronized	5.999892	16.0	0.991539
2024-09-19	OCN	synchronized	1.112853	60.0	1.190816

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2024-09-19	RAW	synchronized	107.192771	77.0	0.894963
2024-09-19	SLC	synchronized	454.198743	61.0	1.414825
2024-09-19	GRDH	fscanner	76.379572	25.0	0.936082
2024-09-19	GRDH	synchronized	99.766197	61.0	1.056664
2024-09-19	GRDM	fscanner	3.271037	31.0	0.686273
2024-09-19	GRDM	synchronized	5.999892	16.0	0.991539
2024-09-19	OCN	synchronized	1.112853	60.0	1.190816
2024-09-19	RAW	synchronized	107.192771	77.0	0.894963
2024-09-19	SLC	synchronized	454.198743	61.0	1.414825
2024-09-20	GRDH	fscanner	41.214979	16.0	0.602743
2024-09-20	GRDH	synchronized	63.435540	38.0	1.497884
2024-09-20	GRDM	fscanner	6.726876	35.0	0.607851
2024-09-20	GRDM	synchronized	7.831141	20.0	0.755876
2024-09-20	OCN	synchronized	1.140027	48.0	1.187294
2024-09-20	RAW	synchronized	69.365788	52.0	0.938143
2024-09-20	SLC	synchronized	259.664330	34.0	1.767220
2024-09-20	GRDH	fscanner	41.214979	16.0	0.602743
2024-09-20	GRDH	synchronized	63.435540	38.0	1.497884
2024-09-20	GRDM	fscanner	6.726876	35.0	0.607851
2024-09-20	GRDM	synchronized	7.831141	20.0	0.755876
2024-09-20	OCN	synchronized	1.140027	48.0	1.187294
2024-09-20	RAW	synchronized	69.365788	52.0	0.938143
2024-09-20	SLC	synchronized	259.664330	34.0	1.767220
2024-09-21	GRDH	fscanner	64.870862	23.0	0.621057
2024-09-21	GRDH	synchronized	79.556183	48.0	1.156611
2024-09-21	GRDM	fscanner	5.953882	40.0	0.649935
2024-09-21	GRDM	synchronized	5.586439	15.0	0.620290
2024-09-21	OCN	synchronized	1.007709	53.0	1.260743
2024-09-21	RAW	synchronized	85.741479	62.0	0.790602
2024-09-21	SLC	synchronized	421.988255	56.0	1.466754
2024-09-21	GRDH	fscanner	64.870862	23.0	0.621057
2024-09-21	GRDH	synchronized	79.556183	48.0	1.156611
2024-09-21	GRDM	fscanner	5.953882	40.0	0.649935
2024-09-21	GRDM	synchronized	5.586439	15.0	0.620290
2024-09-21	OCN	synchronized	1.007709	53.0	1.260743
2024-09-21	RAW	synchronized	85.741479	62.0	0.790602
2024-09-21	SLC	synchronized	421.988255	56.0	1.466754
2024-09-22	GRDH	fscanner	65.551223	23.0	0.863829
2024-09-22	GRDH	synchronized	78.420373	47.0	1.130744
2024-09-22	GRDM	fscanner	5.741470	35.0	0.801889
2024-09-22	GRDM	synchronized	7.692854	20.0	0.896704
2024-09-22	OCN	synchronized	1.233254	60.0	1.250205
2024-09-22	RAW	synchronized	90.271870	67.0	0.948581
2024-09-22	SLC	synchronized	375.990018	49.0	1.433591
2024-09-22	GRDH	fscanner	65.551223	23.0	0.863829
2024-09-22	GRDH	synchronized	78.420373	47.0	1.130744
2024-09-22	GRDM	fscanner	5.741470	35.0	0.801889
2024-09-22	GRDM	synchronized	7.692854	20.0	0.896704
2024-09-22	OCN	synchronized	1.233254	60.0	1.250205
2024-09-22	RAW	synchronized	90.271870	67.0	0.948581
2024-09-22	SLC	synchronized	375.990018	49.0	1.433591
2024-09-23	GRDH	fscanner	56.637669	20.0	0.690000
2024-09-23	GRDH	synchronized	85.506521	51.0	1.038352
2024-09-23	GRDM	fscanner	5.578599	40.0	0.726798
2024-09-23	GRDM	synchronized	7.989023	22.0	1.152311
2024-09-23	OCN	synchronized	1.070919	53.0	1.197674

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2024-09-23	RAW	synchronized	110.124700	80.0	0.893295
2024-09-23	SLC	synchronized	428.575815	57.0	1.430322
2024-09-23	GRDH	fscanner	56.637669	20.0	0.690000
2024-09-23	GRDH	synchronized	85.506521	51.0	1.038352
2024-09-23	GRDM	fscanner	5.578599	40.0	0.726798
2024-09-23	GRDM	synchronized	7.989023	22.0	1.152311
2024-09-23	OCN	synchronized	1.070919	53.0	1.197674
2024-09-23	RAW	synchronized	110.124700	80.0	0.893295
2024-09-23	SLC	synchronized	428.575815	57.0	1.430322
2024-09-24	GRDH	fscanner	68.391649	21.0	0.771927
2024-09-24	GRDH	synchronized	73.496178	45.0	1.125214
2024-09-24	GRDM	fscanner	6.388223	38.0	0.822914
2024-09-24	GRDM	synchronized	6.719925	17.0	0.663089
2024-09-24	OCN	synchronized	0.994268	48.0	1.064977
2024-09-24	RAW	synchronized	84.729687	62.0	0.869472
2024-09-24	SLC	synchronized	377.399528	50.0	1.414421
2024-09-24	GRDH	fscanner	68.391649	21.0	0.771927
2024-09-24	GRDH	synchronized	73.496178	45.0	1.125214
2024-09-24	GRDM	fscanner	6.388223	38.0	0.822914
2024-09-24	GRDM	synchronized	6.719925	17.0	0.663089
2024-09-24	OCN	synchronized	0.994268	48.0	1.064977
2024-09-24	RAW	synchronized	84.729687	62.0	0.869472
2024-09-24	SLC	synchronized	377.399528	50.0	1.414421
2024-09-25	GRDH	fscanner	45.904846	17.0	0.816820
2024-09-25	GRDH	synchronized	65.589342	39.0	1.062436
2024-09-25	GRDM	fscanner	6.274864	34.0	0.796264
2024-09-25	GRDM	synchronized	10.800513	29.0	1.113388
2024-09-25	OCN	synchronized	1.341818	58.0	1.059651
2024-09-25	RAW	synchronized	87.821835	68.0	0.805181
2024-09-25	SLC	synchronized	328.524774	43.0	1.518093
2024-09-25	GRDH	fscanner	45.904846	17.0	0.816820
2024-09-25	GRDH	synchronized	65.589342	39.0	1.062436
2024-09-25	GRDM	fscanner	6.274864	34.0	0.796264
2024-09-25	GRDM	synchronized	10.800513	29.0	1.113388
2024-09-25	OCN	synchronized	1.341818	58.0	1.059651
2024-09-25	RAW	synchronized	87.821835	68.0	0.805181
2024-09-25	SLC	synchronized	328.524774	43.0	1.518093
2024-09-26	GRDH	fscanner	68.146127	23.0	0.920137
2024-09-26	GRDH	synchronized	78.152299	48.0	1.112490
2024-09-26	GRDM	fscanner	3.822060	35.0	0.823724
2024-09-26	GRDM	synchronized	5.303392	14.0	0.854260
2024-09-26	OCN	synchronized	0.892804	47.0	1.104444
2024-09-26	RAW	synchronized	86.089821	62.0	0.910570
2024-09-26	SLC	synchronized	376.918563	51.0	1.337077
2024-09-26	GRDH	fscanner	68.146127	23.0	0.920137
2024-09-26	GRDH	synchronized	78.152299	48.0	1.112490
2024-09-26	GRDM	fscanner	3.822060	35.0	0.823724
2024-09-26	GRDM	synchronized	5.303392	14.0	0.854260
2024-09-26	OCN	synchronized	0.892804	47.0	1.104444
2024-09-26	RAW	synchronized	86.089821	62.0	0.910570
2024-09-26	SLC	synchronized	376.918563	51.0	1.337077
2024-09-27	GRDH	fscanner	39.692845	15.0	0.737782
2024-09-27	GRDH	synchronized	73.951857	45.0	1.356913
2024-09-27	GRDM	fscanner	4.204189	30.0	0.658964
2024-09-27	GRDM	synchronized	7.718199	19.0	1.326216
2024-09-27	OCN	synchronized	1.172304	56.0	1.297200

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2024-09-27	RAW	synchronized	86.599096	63.0	1.002471
2024-09-27	SLC	synchronized	353.489197	47.0	1.741176
2024-09-27	GRDH	fscanner	39.692845	15.0	0.737782
2024-09-27	GRDH	synchronized	73.951857	45.0	1.356913
2024-09-27	GRDM	fscanner	4.204189	30.0	0.658964
2024-09-27	GRDM	synchronized	7.718199	19.0	1.326216
2024-09-27	OCN	synchronized	1.172304	56.0	1.297200
2024-09-27	RAW	synchronized	86.599096	63.0	1.002471
2024-09-27	SLC	synchronized	353.489197	47.0	1.741176
2024-09-28	GRDH	fscanner	54.412816	19.0	0.610715
2024-09-28	GRDH	synchronized	82.685912	50.0	1.387162
2024-09-28	GRDM	fscanner	6.446823	42.0	0.745058
2024-09-28	GRDM	synchronized	7.545326	20.0	1.619882
2024-09-28	OCN	synchronized	1.122922	53.0	1.568977
2024-09-28	RAW	synchronized	96.749595	71.0	1.251925
2024-09-28	SLC	synchronized	397.247292	53.0	1.697299
2024-09-28	GRDH	fscanner	54.412816	19.0	0.610715
2024-09-28	GRDH	synchronized	82.685912	50.0	1.387162
2024-09-28	GRDM	fscanner	6.446823	42.0	0.745058
2024-09-28	GRDM	synchronized	7.545326	20.0	1.619882
2024-09-28	OCN	synchronized	1.122922	53.0	1.568977
2024-09-28	RAW	synchronized	96.749595	71.0	1.251925
2024-09-28	SLC	synchronized	397.247292	53.0	1.697299
2024-09-29	GRDH	fscanner	63.253382	22.0	0.799714
2024-09-29	GRDH	synchronized	50.063770	30.0	4.168272
2024-09-29	GRDM	fscanner	3.700096	34.0	0.888817
2024-09-29	GRDM	synchronized	4.086147	10.0	4.222190
2024-09-29	OCN	synchronized	0.661371	32.0	4.486234
2024-09-29	RAW	synchronized	56.983581	41.0	3.955703
2024-09-29	SLC	synchronized	237.235194	31.0	4.622752
2024-09-29	GRDH	fscanner	63.253382	22.0	0.799714
2024-09-29	GRDH	synchronized	50.063770	30.0	4.168272
2024-09-29	GRDM	fscanner	3.700096	34.0	0.888817
2024-09-29	GRDM	synchronized	4.086147	10.0	4.222190
2024-09-29	OCN	synchronized	0.661371	32.0	4.486234
2024-09-29	RAW	synchronized	56.983581	41.0	3.955703
2024-09-29	SLC	synchronized	237.235194	31.0	4.622752
2024-09-30	GRDH	fscanner	46.139614	15.0	1.532096
2024-09-30	GRDH	synchronized	119.135441	73.0	2.142507
2024-09-30	GRDM	fscanner	2.740151	25.0	0.728683
2024-09-30	GRDM	synchronized	7.457234	20.0	3.723140
2024-09-30	OCN	synchronized	1.288196	66.0	2.935245
2024-09-30	RAW	synchronized	129.748880	93.0	2.927593
2024-09-30	SLC	synchronized	562.949066	76.0	3.228469
2024-09-30	GRDH	fscanner	46.139614	15.0	1.532096
2024-09-30	GRDH	synchronized	119.135441	73.0	2.142507
2024-09-30	GRDM	fscanner	2.740151	25.0	0.728683
2024-09-30	GRDM	synchronized	7.457234	20.0	3.723140
2024-09-30	OCN	synchronized	1.288196	66.0	2.935245
2024-09-30	RAW	synchronized	129.748880	93.0	2.927593
2024-09-30	SLC	synchronized	562.949066	76.0	3.228469
2024-09-01	MSIL1C	synchronized	517.374936	1282.0	4.436799
2024-09-02	MSIL1C	synchronized	214.096549	459.0	4.100088
2024-09-03	MSIL1C	synchronized	547.999255	1285.0	8.639290
2024-09-04	MSIL1C	synchronized	338.671279	744.0	6.659789
2024-09-05	MSIL1C	synchronized	651.239574	1428.0	32.328470

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2024-09-06	MSIL1C	synchronized	847.216443	1882.0	15.442748
2024-09-07	MSIL1C	synchronized	832.085268	1860.0	11.047471
2024-09-08	MSIL1C	synchronized	470.544434	1055.0	7.376131
2024-09-09	MSIL1C	synchronized	814.369920	1742.0	11.875683
2024-09-10	MSIL1C	synchronized	602.309139	1322.0	4.678169
2024-09-11	MSIL1C	synchronized	592.052587	1291.0	3.870817
2024-09-12	MSIL1C	synchronized	351.357374	779.0	5.350204
2024-09-13	MSIL1C	synchronized	812.787076	1856.0	7.290305
2024-09-14	MSIL1C	synchronized	619.650408	1388.0	4.092493
2024-09-15	MSIL1C	synchronized	628.637474	1327.0	3.592840
2024-09-16	MSIL1C	synchronized	622.887480	1354.0	5.783712
2024-09-18	MSIL1C	synchronized	784.041844	1748.0	25.269940
2024-09-18	MSIL1C	synchronized	784.041844	1748.0	25.269940
2024-09-19	MSIL1C	synchronized	767.707110	1722.0	8.036614
2024-09-19	MSIL1C	synchronized	767.707110	1722.0	8.036614
2024-09-20	MSIL1C	synchronized	527.163228	1144.0	3.725821
2024-09-20	MSIL1C	synchronized	527.163228	1144.0	3.725821
2024-09-21	MSIL1C	synchronized	554.658451	1202.0	3.384658
2024-09-21	MSIL1C	synchronized	554.658451	1202.0	3.384658
2024-09-22	MSIL1C	synchronized	563.087161	1236.0	4.342183
2024-09-22	MSIL1C	synchronized	563.087161	1236.0	4.342183
2024-09-23	MSIL1C	synchronized	529.685921	1172.0	3.149523
2024-09-23	MSIL1C	synchronized	529.685921	1172.0	3.149523
2024-09-24	MSIL1C	synchronized	518.906704	1140.0	3.523456
2024-09-24	MSIL1C	synchronized	518.906704	1140.0	3.523456
2024-09-25	MSIL1C	synchronized	474.212523	1058.0	3.371530
2024-09-25	MSIL1C	synchronized	474.212523	1058.0	3.371530
2024-09-26	MSIL1C	synchronized	478.797715	1049.0	5.150515
2024-09-26	MSIL1C	synchronized	478.797715	1049.0	5.150515
2024-09-27	MSIL1C	synchronized	465.249970	1058.0	3.199957
2024-09-27	MSIL1C	synchronized	465.249970	1058.0	3.199957
2024-09-28	MSIL1C	synchronized	429.826255	961.0	3.770354
2024-09-28	MSIL1C	synchronized	429.826255	961.0	3.770354
2024-09-29	MSIL1C	synchronized	436.061360	994.0	4.117262
2024-09-29	MSIL1C	synchronized	436.061360	994.0	4.117262
2024-09-30	MSIL1C	synchronized	398.002981	908.0	4.166925
2024-09-30	MSIL1C	synchronized	398.002981	908.0	4.166925
2024-09-01	MSIL2A	synchronized	652.832984	1277.0	4.629054
2024-09-02	MSIL2A	synchronized	187.015095	359.0	4.911936
2024-09-03	MSIL2A	synchronized	686.290368	1189.0	20.792007
2024-09-04	MSIL2A	synchronized	309.157023	609.0	9.762772
2024-09-05	MSIL2A	synchronized	1046.451145	1735.0	34.040061
2024-09-06	MSIL2A	synchronized	675.628209	1185.0	28.611510
2024-09-07	MSIL2A	synchronized	1465.623605	2536.0	14.400023
2024-09-08	MSIL2A	synchronized	685.601294	1203.0	7.250303
2024-09-09	MSIL2A	synchronized	627.888764	1012.0	21.351596
2024-09-10	MSIL2A	synchronized	1123.684111	1933.0	6.522643
2024-09-11	MSIL2A	synchronized	779.286611	1316.0	4.326190
2024-09-12	MSIL2A	synchronized	627.524547	1084.0	6.245251
2024-09-13	MSIL2A	synchronized	880.213330	1565.0	6.076272
2024-09-14	MSIL2A	synchronized	778.832177	1380.0	4.662047
2024-09-15	MSIL2A	synchronized	796.399452	1328.0	4.118246
2024-09-16	MSIL2A	synchronized	785.454160	1350.0	6.323021
2024-09-18	MSIL2A	synchronized	1350.483920	2404.0	20.417499
2024-09-18	MSIL2A	synchronized	1350.483920	2404.0	20.417499
2024-09-19	MSIL2A	synchronized	611.719888	1072.0	6.776639

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2024-09-19	MSIL2A	synchronized	611.719888	1072.0	6.776639
2024-09-20	MSIL2A	synchronized	249.473102	407.0	3.704419
2024-09-20	MSIL2A	synchronized	249.473102	407.0	3.704419
2024-09-21	MSIL2A	synchronized	38.679562	105.0	21.464342
2024-09-21	MSIL2A	synchronized	38.679562	105.0	21.464342
2024-09-22	MSIL2A	synchronized	5.773123	15.0	58.439062
2024-09-22	MSIL2A	synchronized	5.773123	15.0	58.439062
2024-09-23	MSIL2A	synchronized	722.588360	1245.0	50.356581
2024-09-23	MSIL2A	synchronized	722.588360	1245.0	50.356581
2024-09-24	MSIL2A	synchronized	991.272998	1760.0	46.740992
2024-09-24	MSIL2A	synchronized	991.272998	1760.0	46.740992
2024-09-25	MSIL2A	synchronized	1396.356364	2344.0	29.020760
2024-09-25	MSIL2A	synchronized	1396.356364	2344.0	29.020760
2024-09-26	MSIL2A	synchronized	966.999549	1642.0	23.942829
2024-09-26	MSIL2A	synchronized	966.999549	1642.0	23.942829
2024-09-27	MSIL2A	synchronized	871.607897	1570.0	5.862441
2024-09-27	MSIL2A	synchronized	871.607897	1570.0	5.862441
2024-09-28	MSIL2A	synchronized	542.064019	962.0	4.331498
2024-09-28	MSIL2A	synchronized	542.064019	962.0	4.331498
2024-09-29	MSIL2A	synchronized	570.252696	1021.0	4.755678
2024-09-29	MSIL2A	synchronized	570.252696	1021.0	4.755678
2024-09-30	MSIL2A	synchronized	534.864246	940.0	4.837913
2024-09-30	MSIL2A	synchronized	534.864246	940.0	4.837913
2024-09-01	OLCI_L1	synchronized	110.829281	139.0	6.116032
2024-09-01	OLCI_L2	synchronized	15.364736	133.0	10.059737
2024-09-01	SLSTR_L1	synchronized	61.796727	152.0	3.865299
2024-09-01	SLSTR_L2	synchronized	15.227166	243.0	21.264073
2024-09-01	SRAL_L1	synchronized	139.870350	87.0	38.568250
2024-09-01	SRAL_L2	synchronized	5.291490	202.0	39.411946
2024-09-01	SYN_L2	synchronized	29.881572	161.0	21.825744
2024-09-02	OLCI_L1	synchronized	73.437663	93.0	5.177907
2024-09-02	OLCI_L2	synchronized	10.433846	90.0	6.789482
2024-09-02	SLSTR_L1	synchronized	52.181047	128.0	3.350801
2024-09-02	SLSTR_L2	synchronized	11.788630	183.0	20.767449
2024-09-02	SRAL_L1	synchronized	107.515396	63.0	39.810844
2024-09-02	SRAL_L2	synchronized	3.774107	132.0	41.257598
2024-09-02	SYN_L2	synchronized	22.096430	120.0	26.550052
2024-09-03	OLCI_L1	synchronized	112.844759	142.0	17.477576
2024-09-03	OLCI_L2	synchronized	16.971392	152.0	19.585959
2024-09-03	SLSTR_L1	synchronized	55.954267	137.0	22.204469
2024-09-03	SLSTR_L2	synchronized	13.792547	219.0	24.753757
2024-09-03	SRAL_L1	synchronized	142.474086	90.0	40.655031
2024-09-03	SRAL_L2	synchronized	5.311233	210.0	41.427741
2024-09-03	SYN_L2	synchronized	34.721413	189.0	27.725096
2024-09-04	OLCI_L1	synchronized	90.604171	115.0	18.196408
2024-09-04	OLCI_L2	synchronized	13.536756	115.0	17.145984
2024-09-04	SLSTR_L1	synchronized	57.279721	140.0	21.854236
2024-09-04	SLSTR_L2	synchronized	14.586931	229.0	27.356310
2024-09-04	SRAL_L1	synchronized	148.837252	91.0	40.945111
2024-09-04	SRAL_L2	synchronized	5.567765	195.0	42.725926
2024-09-04	SYN_L2	synchronized	26.576351	145.0	26.845753
2024-09-05	OLCI_L1	synchronized	115.048974	151.0	19.632494
2024-09-05	OLCI_L2	synchronized	15.436828	138.0	18.810223
2024-09-05	SLSTR_L1	synchronized	98.364505	241.0	34.209813
2024-09-05	SLSTR_L2	synchronized	22.150147	351.0	34.712075
2024-09-05	SRAL_L1	synchronized	140.407761	82.0	44.004112

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2024-09-05	SRAL_L2	synchronized	5.724780	226.0	43.463197
2024-09-05	SYN_L2	synchronized	34.029061	181.0	27.976505
2024-09-06	OLCI_L1	synchronized	97.104987	126.0	20.313622
2024-09-06	OLCI_L2	synchronized	15.462447	135.0	22.497955
2024-09-06	SLSTR_L1	synchronized	67.057424	164.0	21.333759
2024-09-06	SLSTR_L2	synchronized	14.483411	231.0	29.584904
2024-09-06	SRAL_L1	synchronized	126.147049	82.0	39.203338
2024-09-06	SRAL_L2	synchronized	5.152756	198.0	42.881282
2024-09-06	SYN_L2	synchronized	33.111889	155.0	27.996797
2024-09-07	OLCI_L1	synchronized	110.782054	147.0	11.883248
2024-09-07	OLCI_L2	synchronized	17.285102	146.0	12.884351
2024-09-07	SLSTR_L1	synchronized	85.783028	210.0	17.707598
2024-09-07	SLSTR_L2	synchronized	19.791481	312.0	24.783767
2024-09-07	SRAL_L1	synchronized	150.566624	96.0	39.540394
2024-09-07	SRAL_L2	synchronized	6.146463	241.0	39.596276
2024-09-07	SYN_L2	synchronized	34.083286	177.0	21.099342
2024-09-08	OLCI_L1	synchronized	87.382485	117.0	9.501431
2024-09-08	OLCI_L2	synchronized	14.692988	130.0	10.975513
2024-09-08	SLSTR_L1	synchronized	65.295516	160.0	6.594238
2024-09-08	SLSTR_L2	synchronized	16.110896	254.0	21.594414
2024-09-08	SRAL_L1	synchronized	135.648624	81.0	39.272561
2024-09-08	SRAL_L2	synchronized	5.153658	200.0	39.846864
2024-09-08	SYN_L2	synchronized	28.101962	144.0	21.957739
2024-09-09	OLCI_L1	synchronized	85.545369	116.0	8.773406
2024-09-09	OLCI_L2	synchronized	13.113017	115.0	3.935170
2024-09-09	SLSTR_L1	synchronized	64.371735	158.0	11.349035
2024-09-09	SLSTR_L2	synchronized	15.306910	241.0	21.272652
2024-09-09	SRAL_L1	synchronized	135.683192	87.0	38.476328
2024-09-09	SRAL_L2	synchronized	5.304147	200.0	40.138247
2024-09-09	SYN_L2	synchronized	28.887016	155.0	23.201204
2024-09-10	OLCI_L1	synchronized	84.742821	118.0	6.449456
2024-09-10	OLCI_L2	synchronized	14.583620	131.0	9.995432
2024-09-10	SLSTR_L1	synchronized	67.538376	166.0	3.885459
2024-09-10	SLSTR_L2	synchronized	17.056298	269.0	18.524721
2024-09-10	SRAL_L1	synchronized	139.426206	81.0	39.818787
2024-09-10	SRAL_L2	synchronized	5.213013	198.0	40.300006
2024-09-10	SYN_L2	synchronized	30.225043	156.0	23.192080
2024-09-11	OLCI_L1	synchronized	80.991687	114.0	9.544282
2024-09-11	OLCI_L2	synchronized	14.139424	129.0	11.236655
2024-09-11	SLSTR_L1	synchronized	64.269478	158.0	4.515466
2024-09-11	SLSTR_L2	synchronized	16.894520	267.0	20.196051
2024-09-11	SRAL_L1	synchronized	139.719340	83.0	39.805273
2024-09-11	SRAL_L2	synchronized	5.354106	198.0	39.976936
2024-09-11	SYN_L2	synchronized	25.445199	142.0	23.307847
2024-09-12	OLCI_L1	synchronized	86.756169	121.0	9.969348
2024-09-12	OLCI_L2	synchronized	13.527811	125.0	11.537864
2024-09-12	SLSTR_L1	synchronized	64.919352	160.0	16.508342
2024-09-12	SLSTR_L2	synchronized	15.083112	238.0	23.256953
2024-09-12	SRAL_L1	synchronized	136.947805	84.0	39.010752
2024-09-12	SRAL_L2	synchronized	5.284066	196.0	40.177629
2024-09-12	SYN_L2	synchronized	30.675472	159.0	22.865196
2024-09-13	OLCI_L1	synchronized	86.585413	124.0	5.058531
2024-09-13	OLCI_L2	synchronized	13.517782	125.0	3.472926
2024-09-13	SLSTR_L1	synchronized	62.110491	153.0	3.355032
2024-09-13	SLSTR_L2	synchronized	16.060579	253.0	18.934677
2024-09-13	SRAL_L1	synchronized	137.603449	87.0	38.488866

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2024-09-13	SRAL_L2	synchronized	5.199097	194.0	40.257101
2024-09-13	SYN_L2	synchronized	31.144157	156.0	23.578371
2024-09-14	OLCI_L1	synchronized	67.185194	96.0	2.835186
2024-09-14	OLCI_L2	synchronized	10.308428	97.0	2.974174
2024-09-14	SLSTR_L1	synchronized	69.798622	172.0	3.931467
2024-09-14	SLSTR_L2	synchronized	16.737800	265.0	20.288519
2024-09-14	SRAL_L1	synchronized	138.426961	83.0	39.008417
2024-09-14	SRAL_L2	synchronized	5.255045	197.0	40.134551
2024-09-14	SYN_L2	synchronized	29.819246	149.0	21.254557
2024-09-15	OLCI_L1	synchronized	80.890995	120.0	11.211908
2024-09-15	OLCI_L2	synchronized	13.849079	129.0	12.189213
2024-09-15	SLSTR_L1	synchronized	66.470293	166.0	3.797376
2024-09-15	SLSTR_L2	synchronized	15.547245	247.0	18.741863
2024-09-15	SRAL_L1	synchronized	125.761411	73.0	39.767267
2024-09-15	SRAL_L2	synchronized	5.289598	201.0	39.643527
2024-09-15	SYN_L2	synchronized	18.542588	103.0	13.346062
2024-09-16	OLCI_L1	synchronized	85.727612	127.0	11.493090
2024-09-16	OLCI_L2	synchronized	14.167427	137.0	12.114078
2024-09-16	SLSTR_L1	synchronized	66.607418	164.0	16.220099
2024-09-16	SLSTR_L2	synchronized	16.919759	268.0	23.611000
2024-09-16	SRAL_L1	synchronized	143.492541	86.0	39.468742
2024-09-16	SRAL_L2	synchronized	5.308819	197.0	39.953466
2024-09-16	SYN_L2	synchronized	33.010036	181.0	26.942068
2024-09-18	OLCI_L1	synchronized	133.490372	197.0	27.031482
2024-09-18	OLCI_L2	synchronized	19.686517	190.0	27.659273
2024-09-18	SLSTR_L1	synchronized	101.422035	250.0	28.843756
2024-09-18	SLSTR_L2	synchronized	24.348466	384.0	34.983350
2024-09-18	SRAL_L1	synchronized	174.235229	103.0	53.445936
2024-09-18	SRAL_L2	synchronized	6.783067	251.0	54.032411
2024-09-18	SYN_L2	synchronized	34.035202	181.0	46.192923
2024-09-18	OLCI_L1	synchronized	133.490372	197.0	27.031482
2024-09-18	OLCI_L2	synchronized	19.686517	190.0	27.659273
2024-09-18	SLSTR_L1	synchronized	101.422035	250.0	28.843756
2024-09-18	SLSTR_L2	synchronized	24.348466	384.0	34.983350
2024-09-18	SRAL_L1	synchronized	174.235229	103.0	53.445936
2024-09-18	SRAL_L2	synchronized	6.783067	251.0	54.032411
2024-09-18	SYN_L2	synchronized	34.035202	181.0	46.192923
2024-09-19	OLCI_L1	synchronized	110.408519	167.0	12.757173
2024-09-19	OLCI_L2	synchronized	15.630944	153.0	13.146407
2024-09-19	SLSTR_L1	synchronized	86.523170	214.0	10.304884
2024-09-19	SLSTR_L2	synchronized	20.339651	322.0	23.412102
2024-09-19	SRAL_L1	synchronized	187.229154	122.0	39.863332
2024-09-19	SRAL_L2	synchronized	7.499994	290.0	40.252178
2024-09-19	SYN_L2	synchronized	39.499495	222.0	18.932965
2024-09-19	OLCI_L1	synchronized	110.408519	167.0	12.757173
2024-09-19	OLCI_L2	synchronized	15.630944	153.0	13.146407
2024-09-19	SLSTR_L1	synchronized	86.523170	214.0	10.304884
2024-09-19	SLSTR_L2	synchronized	20.339651	322.0	23.412102
2024-09-19	SRAL_L1	synchronized	187.229154	122.0	39.863332
2024-09-19	SRAL_L2	synchronized	7.499994	290.0	40.252178
2024-09-19	SYN_L2	synchronized	39.499495	222.0	18.932965
2024-09-20	OLCI_L1	synchronized	76.759507	118.0	8.639381
2024-09-20	OLCI_L2	synchronized	12.081171	120.0	10.238489
2024-09-20	SLSTR_L1	synchronized	64.370045	159.0	15.823310
2024-09-20	SLSTR_L2	synchronized	15.288793	241.0	23.023759
2024-09-20	SRAL_L1	synchronized	127.913125	79.0	38.494029

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2024-09-20	SRAL_L2	synchronized	4.889893	186.0	39.821091
2024-09-20	SYN_L2	synchronized	25.607095	146.0	23.334677
2024-09-20	OLCI_L1	synchronized	76.759507	118.0	8.639381
2024-09-20	OLCI_L2	synchronized	12.081171	120.0	10.238489
2024-09-20	SLSTR_L1	synchronized	64.370045	159.0	15.823310
2024-09-20	SLSTR_L2	synchronized	15.288793	241.0	23.023759
2024-09-20	SRAL_L1	synchronized	127.913125	79.0	38.494029
2024-09-20	SRAL_L2	synchronized	4.889893	186.0	39.821091
2024-09-20	SYN_L2	synchronized	25.607095	146.0	23.334677
2024-09-21	OLCI_L1	synchronized	80.995247	122.0	8.439441
2024-09-21	OLCI_L2	synchronized	12.343518	120.0	7.650160
2024-09-21	SLSTR_L1	synchronized	71.566498	177.0	4.213062
2024-09-21	SLSTR_L2	synchronized	17.298143	272.0	19.142418
2024-09-21	SRAL_L1	synchronized	139.439989	86.0	38.464559
2024-09-21	SRAL_L2	synchronized	5.409418	205.0	39.883184
2024-09-21	SYN_L2	synchronized	29.112822	149.0	22.226200
2024-09-21	OLCI_L1	synchronized	80.995247	122.0	8.439441
2024-09-21	OLCI_L2	synchronized	12.343518	120.0	7.650160
2024-09-21	SLSTR_L1	synchronized	71.566498	177.0	4.213062
2024-09-21	SLSTR_L2	synchronized	17.298143	272.0	19.142418
2024-09-21	SRAL_L1	synchronized	139.439989	86.0	38.464559
2024-09-21	SRAL_L2	synchronized	5.409418	205.0	39.883184
2024-09-21	SYN_L2	synchronized	29.112822	149.0	22.226200
2024-09-22	OLCI_L1	synchronized	75.100575	104.0	9.158588
2024-09-22	OLCI_L2	synchronized	11.485770	105.0	10.349201
2024-09-22	SLSTR_L1	synchronized	74.232077	184.0	6.199511
2024-09-22	SLSTR_L2	synchronized	18.175669	286.0	19.029596
2024-09-22	SRAL_L1	synchronized	137.354151	83.0	39.168045
2024-09-22	SRAL_L2	synchronized	5.414293	211.0	39.784097
2024-09-22	SYN_L2	synchronized	28.695340	142.0	24.597722
2024-09-22	OLCI_L1	synchronized	75.100575	104.0	9.158588
2024-09-22	OLCI_L2	synchronized	11.485770	105.0	10.349201
2024-09-22	SLSTR_L1	synchronized	74.232077	184.0	6.199511
2024-09-22	SLSTR_L2	synchronized	18.175669	286.0	19.029596
2024-09-22	SRAL_L1	synchronized	137.354151	83.0	39.168045
2024-09-22	SRAL_L2	synchronized	5.414293	211.0	39.784097
2024-09-22	SYN_L2	synchronized	28.695340	142.0	24.597722
2024-09-23	OLCI_L1	synchronized	73.548019	91.0	9.434366
2024-09-23	OLCI_L2	synchronized	11.322933	91.0	10.235996
2024-09-23	SLSTR_L1	synchronized	63.598660	159.0	6.173068
2024-09-23	SLSTR_L2	synchronized	13.330367	211.0	18.066840
2024-09-23	SRAL_L1	synchronized	123.327827	80.0	38.412468
2024-09-23	SRAL_L2	synchronized	5.188509	199.0	39.407598
2024-09-23	SYN_L2	synchronized	19.063092	101.0	26.449059
2024-09-23	OLCI_L1	synchronized	73.548019	91.0	9.434366
2024-09-23	OLCI_L2	synchronized	11.322933	91.0	10.235996
2024-09-23	SLSTR_L1	synchronized	63.598660	159.0	6.173068
2024-09-23	SLSTR_L2	synchronized	13.330367	211.0	18.066840
2024-09-23	SRAL_L1	synchronized	123.327827	80.0	38.412468
2024-09-23	SRAL_L2	synchronized	5.188509	199.0	39.407598
2024-09-23	SYN_L2	synchronized	19.063092	101.0	26.449059
2024-09-24	OLCI_L1	synchronized	77.343167	94.0	9.562748
2024-09-24	OLCI_L2	synchronized	11.445281	92.0	10.228475
2024-09-24	SLSTR_L1	synchronized	70.793633	176.0	17.477401
2024-09-24	SLSTR_L2	synchronized	17.247722	271.0	24.886073
2024-09-24	SRAL_L1	synchronized	148.590059	92.0	40.193194

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2024-09-24	SRAL_L2	synchronized	5.643575	212.0	40.652355
2024-09-24	SYN_L2	synchronized	27.108064	136.0	25.155238
2024-09-24	OLCI_L1	synchronized	77.343167	94.0	9.562748
2024-09-24	OLCI_L2	synchronized	11.445281	92.0	10.228475
2024-09-24	SLSTR_L1	synchronized	70.793633	176.0	17.477401
2024-09-24	SLSTR_L2	synchronized	17.247722	271.0	24.886073
2024-09-24	SRAL_L1	synchronized	148.590059	92.0	40.193194
2024-09-24	SRAL_L2	synchronized	5.643575	212.0	40.652355
2024-09-24	SYN_L2	synchronized	27.108064	136.0	25.155238
2024-09-25	OLCI_L1	synchronized	68.719243	84.0	5.007757
2024-09-25	OLCI_L2	synchronized	11.238438	90.0	9.038991
2024-09-25	SLSTR_L1	synchronized	76.334595	191.0	14.640585
2024-09-25	SLSTR_L2	synchronized	19.327006	299.0	20.706350
2024-09-25	SRAL_L1	synchronized	141.405497	87.0	38.627611
2024-09-25	SRAL_L2	synchronized	5.464527	204.0	40.568641
2024-09-25	SYN_L2	synchronized	23.818955	122.0	22.861236
2024-09-25	OLCI_L1	synchronized	68.719243	84.0	5.007757
2024-09-25	OLCI_L2	synchronized	11.238438	90.0	9.038991
2024-09-25	SLSTR_L1	synchronized	76.334595	191.0	14.640585
2024-09-25	SLSTR_L2	synchronized	19.327006	299.0	20.706350
2024-09-25	SRAL_L1	synchronized	141.405497	87.0	38.627611
2024-09-25	SRAL_L2	synchronized	5.464527	204.0	40.568641
2024-09-25	SYN_L2	synchronized	23.818955	122.0	22.861236
2024-09-26	OLCI_L1	synchronized	71.581201	89.0	9.113126
2024-09-26	OLCI_L2	synchronized	10.216420	85.0	4.922939
2024-09-26	SLSTR_L1	synchronized	66.255542	165.0	3.445959
2024-09-26	SLSTR_L2	synchronized	16.024576	252.0	17.284674
2024-09-26	SRAL_L1	synchronized	138.300235	83.0	39.162475
2024-09-26	SRAL_L2	synchronized	5.339113	205.0	38.849266
2024-09-26	SYN_L2	synchronized	22.071283	115.0	23.768714
2024-09-26	OLCI_L1	synchronized	71.581201	89.0	9.113126
2024-09-26	OLCI_L2	synchronized	10.216420	85.0	4.922939
2024-09-26	SLSTR_L1	synchronized	66.255542	165.0	3.445959
2024-09-26	SLSTR_L2	synchronized	16.024576	252.0	17.284674
2024-09-26	SRAL_L1	synchronized	138.300235	83.0	39.162475
2024-09-26	SRAL_L2	synchronized	5.339113	205.0	38.849266
2024-09-26	SYN_L2	synchronized	22.071283	115.0	23.768714
2024-09-27	OLCI_L1	synchronized	66.365896	83.0	9.521800
2024-09-27	OLCI_L2	synchronized	9.152981	77.0	3.170740
2024-09-27	SLSTR_L1	synchronized	61.023492	151.0	16.796721
2024-09-27	SLSTR_L2	synchronized	15.325314	242.0	22.478800
2024-09-27	SRAL_L1	synchronized	134.941868	85.0	38.498968
2024-09-27	SRAL_L2	synchronized	5.146067	193.0	40.431590
2024-09-27	SYN_L2	synchronized	18.368437	108.0	21.953142
2024-09-27	OLCI_L1	synchronized	66.365896	83.0	9.521800
2024-09-27	OLCI_L2	synchronized	9.152981	77.0	3.170740
2024-09-27	SLSTR_L1	synchronized	61.023492	151.0	16.796721
2024-09-27	SLSTR_L2	synchronized	15.325314	242.0	22.478800
2024-09-27	SRAL_L1	synchronized	134.941868	85.0	38.498968
2024-09-27	SRAL_L2	synchronized	5.146067	193.0	40.431590
2024-09-27	SYN_L2	synchronized	18.368437	108.0	21.953142
2024-09-28	OLCI_L1	synchronized	66.746218	84.0	8.547976
2024-09-28	OLCI_L2	synchronized	9.887992	86.0	10.436879
2024-09-28	SLSTR_L1	synchronized	62.703918	156.0	16.206749
2024-09-28	SLSTR_L2	synchronized	14.782389	234.0	22.973489
2024-09-28	SRAL_L1	synchronized	125.499962	80.0	38.436406

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2024-09-28	SRAL_L2	synchronized	4.924551	187.0	39.943500
2024-09-28	SYN_L2	synchronized	18.483259	108.0	22.921142
2024-09-28	OLCI_L1	synchronized	66.746218	84.0	8.547976
2024-09-28	OLCI_L2	synchronized	9.887992	86.0	10.436879
2024-09-28	SLSTR_L1	synchronized	62.703918	156.0	16.206749
2024-09-28	SLSTR_L2	synchronized	14.782389	234.0	22.973489
2024-09-28	SRAL_L1	synchronized	125.499962	80.0	38.436406
2024-09-28	SRAL_L2	synchronized	4.924551	187.0	39.943500
2024-09-28	SYN_L2	synchronized	18.483259	108.0	22.921142
2024-09-29	OLCI_L1	synchronized	70.216212	90.0	8.689960
2024-09-29	OLCI_L2	synchronized	10.056276	87.0	3.223059
2024-09-29	SLSTR_L1	synchronized	66.956076	167.0	3.858872
2024-09-29	SLSTR_L2	synchronized	15.439535	244.0	18.359313
2024-09-29	SRAL_L1	synchronized	139.631017	85.0	38.589866
2024-09-29	SRAL_L2	synchronized	5.088017	194.0	40.219445
2024-09-29	SYN_L2	synchronized	13.785191	81.0	23.239084
2024-09-29	OLCI_L1	synchronized	70.216212	90.0	8.689960
2024-09-29	OLCI_L2	synchronized	10.056276	87.0	3.223059
2024-09-29	SLSTR_L1	synchronized	66.956076	167.0	3.858872
2024-09-29	SLSTR_L2	synchronized	15.439535	244.0	18.359313
2024-09-29	SRAL_L1	synchronized	139.631017	85.0	38.589866
2024-09-29	SRAL_L2	synchronized	5.088017	194.0	40.219445
2024-09-29	SYN_L2	synchronized	13.785191	81.0	23.239084
2024-09-30	OLCI_L1	synchronized	61.994129	85.0	6.391751
2024-09-30	OLCI_L2	synchronized	9.445273	85.0	3.190750
2024-09-30	SLSTR_L1	synchronized	77.759127	195.0	15.856113
2024-09-30	SLSTR_L2	synchronized	19.263462	305.0	21.321881
2024-09-30	SRAL_L1	synchronized	146.171343	90.0	39.585241
2024-09-30	SRAL_L2	synchronized	6.016360	225.0	40.228980
2024-09-30	SYN_L2	synchronized	23.965725	145.0	22.971265
2024-09-30	OLCI_L1	synchronized	61.994129	85.0	6.391751
2024-09-30	OLCI_L2	synchronized	9.445273	85.0	3.190750
2024-09-30	SLSTR_L1	synchronized	77.759127	195.0	15.856113
2024-09-30	SLSTR_L2	synchronized	19.263462	305.0	21.321881
2024-09-30	SRAL_L1	synchronized	146.171343	90.0	39.585241
2024-09-30	SRAL_L2	synchronized	6.016360	225.0	40.228980
2024-09-30	SYN_L2	synchronized	23.965725	145.0	22.971265
2024-09-01	NRTI_L2	synchronized	9.509081	297.0	1.853022
2024-09-01	OFFL_L1B	synchronized	305.718296	112.0	4.104614
2024-09-01	OFFL_L2	synchronized	67.096426	182.0	39.403837
2024-09-02	NRTI_L2	synchronized	10.716430	315.0	1.886190
2024-09-02	OFFL_L1B	synchronized	327.690809	120.0	4.060646
2024-09-02	OFFL_L2	synchronized	70.901134	192.0	39.660987
2024-09-03	NRTI_L2	synchronized	10.046964	306.0	1.869617
2024-09-03	OFFL_L1B	synchronized	305.664773	112.0	3.926856
2024-09-03	OFFL_L2	synchronized	66.638017	185.0	39.218300
2024-09-04	NRTI_L2	synchronized	9.884517	290.0	1.877943
2024-09-04	OFFL_L1B	synchronized	305.753218	112.0	3.754281
2024-09-04	OFFL_L2	synchronized	64.716356	187.0	39.220703
2024-09-05	NRTI_L2	synchronized	9.742195	317.0	1.886205
2024-09-05	OFFL_L1B	synchronized	286.029583	104.0	3.754091
2024-09-05	OFFL_L2	synchronized	65.778326	183.0	39.247724
2024-09-06	NRTI_L2	synchronized	9.891931	293.0	1.853079
2024-09-06	OFFL_L1B	synchronized	308.038268	112.0	3.821941
2024-09-06	OFFL_L2	synchronized	67.212697	185.0	39.184156
2024-09-07	NRTI_L2	synchronized	10.075713	294.0	1.869552

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2024-09-07	OFFL_L1B	synchronized	285.996511	104.0	3.768982
2024-09-07	OFFL_L2	synchronized	63.272105	172.0	39.249121
2024-09-08	NRTI_L2	synchronized	9.491547	287.0	1.869710
2024-09-08	OFFL_L1B	synchronized	283.470114	104.0	3.885766
2024-09-08	OFFL_L2	synchronized	58.735307	160.0	39.508928
2024-09-09	NRTI_L2	synchronized	8.881361	297.0	1.886662
2024-09-09	OFFL_L1B	synchronized	308.008669	112.0	3.812533
2024-09-09	OFFL_L2	synchronized	57.493644	153.0	40.331343
2024-09-10	NRTI_L2	synchronized	9.517370	297.0	1.853040
2024-09-10	OFFL_L1B	synchronized	285.926085	104.0	3.734936
2024-09-10	OFFL_L2	synchronized	10.745678	20.0	191.816425
2024-09-11	NRTI_L2	synchronized	9.328830	287.0	1.964843
2024-09-11	OFFL_L1B	synchronized	305.499952	112.0	3.935970
2024-09-11	OFFL_L2	synchronized	57.652931	189.0	67.916596
2024-09-12	NRTI_L2	synchronized	9.660375	297.0	1.881473
2024-09-12	OFFL_L1B	synchronized	327.465136	120.0	3.906017
2024-09-12	OFFL_L2	synchronized	77.677562	206.0	70.410166
2024-09-13	NRTI_L2	synchronized	9.623420	283.0	1.881592
2024-09-13	OFFL_L1B	synchronized	281.073583	104.0	3.779556
2024-09-13	OFFL_L2	synchronized	76.276614	210.0	64.533425
2024-09-14	NRTI_L2	synchronized	8.306591	261.0	1.898205
2024-09-14	OFFL_L1B	synchronized	327.493269	120.0	3.830579
2024-09-14	OFFL_L2	synchronized	76.460934	214.0	59.347479
2024-09-15	NRTI_L2	synchronized	8.261374	282.0	1.914867
2024-09-15	OFFL_L1B	synchronized	305.312793	112.0	3.704406
2024-09-15	OFFL_L2	synchronized	83.108943	225.0	53.692087
2024-09-16	NRTI_L2	synchronized	9.477331	311.0	1.881628
2024-09-16	OFFL_L1B	synchronized	305.334276	112.0	3.875299
2024-09-16	OFFL_L2	synchronized	71.082591	200.0	48.481981
2024-09-18	NRTI_L2	synchronized	15.867786	521.0	9.664785
2024-09-18	OFFL_L1B	synchronized	544.693117	200.0	11.188907
2024-09-18	OFFL_L2	synchronized	129.384167	350.0	52.185354
2024-09-18	NRTI_L2	synchronized	15.867786	521.0	9.664785
2024-09-18	OFFL_L1B	synchronized	544.693117	200.0	11.188907
2024-09-18	OFFL_L2	synchronized	129.384167	350.0	52.185354
2024-09-19	NRTI_L2	synchronized	7.772983	279.0	1.898128
2024-09-19	OFFL_L1B	synchronized	302.913094	112.0	4.161601
2024-09-19	OFFL_L2	synchronized	72.054489	195.0	40.500705
2024-09-19	NRTI_L2	synchronized	7.772983	279.0	1.898128
2024-09-19	OFFL_L1B	synchronized	302.913094	112.0	4.161601
2024-09-19	OFFL_L2	synchronized	72.054489	195.0	40.500705
2024-09-20	NRTI_L2	synchronized	8.773673	306.0	1.898150
2024-09-20	OFFL_L1B	synchronized	305.312990	112.0	4.049508
2024-09-20	OFFL_L2	synchronized	62.447333	173.0	38.844283
2024-09-20	NRTI_L2	synchronized	8.773673	306.0	1.898150
2024-09-20	OFFL_L1B	synchronized	305.312990	112.0	4.049508
2024-09-20	OFFL_L2	synchronized	62.447333	173.0	38.844283
2024-09-21	NRTI_L2	synchronized	6.930265	225.0	1.898096
2024-09-21	OFFL_L1B	synchronized	219.823687	80.0	3.854623
2024-09-21	OFFL_L2	synchronized	67.618774	189.0	39.430775
2024-09-21	NRTI_L2	synchronized	6.930265	225.0	1.898096
2024-09-21	OFFL_L1B	synchronized	219.823687	80.0	3.854623
2024-09-21	OFFL_L2	synchronized	67.618774	189.0	39.430775
2024-09-22	NRTI_L2	synchronized	8.882965	306.0	1.863981
2024-09-22	OFFL_L1B	synchronized	390.959948	144.0	3.981220
2024-09-22	OFFL_L2	synchronized	64.259008	174.0	39.694876

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2024-09-22	NRTI_L2	synchronized	8.882965	306.0	1.863981
2024-09-22	OFFL_L1B	synchronized	390.959948	144.0	3.981220
2024-09-22	OFFL_L2	synchronized	64.259008	174.0	39.694876
2024-09-23	NRTI_L2	synchronized	8.112090	270.0	1.897364
2024-09-23	OFFL_L1B	synchronized	285.922629	104.0	3.850964
2024-09-23	OFFL_L2	synchronized	64.959621	177.0	39.877051
2024-09-23	NRTI_L2	synchronized	8.112090	270.0	1.897364
2024-09-23	OFFL_L1B	synchronized	285.922629	104.0	3.850964
2024-09-23	OFFL_L2	synchronized	64.959621	177.0	39.877051
2024-09-24	NRTI_L2	synchronized	5.027005	188.0	1.918882
2024-09-24	OFFL_L1B	synchronized	198.108454	72.0	3.785712
2024-09-24	OFFL_L2	synchronized	66.350262	182.0	40.799244
2024-09-24	NRTI_L2	synchronized	5.027005	188.0	1.918882
2024-09-24	OFFL_L1B	synchronized	198.108454	72.0	3.785712
2024-09-24	OFFL_L2	synchronized	66.350262	182.0	40.799244
2024-09-25	NRTI_L2	synchronized	7.694154	269.0	1.890356
2024-09-25	OFFL_L1B	synchronized	313.800419	120.0	4.007829
2024-09-25	OFFL_L2	synchronized	57.654625	156.0	40.530547
2024-09-25	NRTI_L2	synchronized	7.694154	269.0	1.890356
2024-09-25	OFFL_L1B	synchronized	313.800419	120.0	4.007829
2024-09-25	OFFL_L2	synchronized	57.654625	156.0	40.530547
2024-09-26	NRTI_L2	synchronized	7.986351	271.0	1.857338
2024-09-26	OFFL_L1B	synchronized	263.755080	96.0	3.798496
2024-09-26	OFFL_L2	synchronized	48.550544	141.0	40.433025
2024-09-26	NRTI_L2	synchronized	7.986351	271.0	1.857338
2024-09-26	OFFL_L1B	synchronized	263.755080	96.0	3.798496
2024-09-26	OFFL_L2	synchronized	48.550544	141.0	40.433025
2024-09-27	NRTI_L2	synchronized	8.178627	287.0	1.873696
2024-09-27	OFFL_L1B	synchronized	285.706125	104.0	3.859104
2024-09-27	OFFL_L2	synchronized	49.472017	125.0	48.101554
2024-09-27	NRTI_L2	synchronized	8.178627	287.0	1.873696
2024-09-27	OFFL_L1B	synchronized	285.706125	104.0	3.859104
2024-09-27	OFFL_L2	synchronized	49.472017	125.0	48.101554
2024-09-28	NRTI_L2	synchronized	4.688413	171.0	1.857022
2024-09-28	OFFL_L1B	synchronized	219.743228	80.0	3.703073
2024-09-28	OFFL_L2	synchronized	7.843266	14.0	197.144697
2024-09-28	NRTI_L2	synchronized	4.688413	171.0	1.857022
2024-09-28	OFFL_L1B	synchronized	219.743228	80.0	3.703073
2024-09-28	OFFL_L2	synchronized	7.843266	14.0	197.144697
2024-09-29	NRTI_L2	synchronized	7.552590	271.0	1.872654
2024-09-29	OFFL_L1B	synchronized	373.298688	136.0	4.081590
2024-09-29	OFFL_L2	synchronized	8.048001	14.0	197.680251
2024-09-29	NRTI_L2	synchronized	7.552590	271.0	1.872654
2024-09-29	OFFL_L1B	synchronized	373.298688	136.0	4.081590
2024-09-29	OFFL_L2	synchronized	8.048001	14.0	197.680251
2024-09-30	NRTI_L2	synchronized	7.052504	251.0	1.905624
2024-09-30	OFFL_L1B	synchronized	285.590735	104.0	3.816421
2024-09-30	OFFL_L2	synchronized	8.473634	16.0	196.374387
2024-09-30	NRTI_L2	synchronized	7.052504	251.0	1.905624
2024-09-30	OFFL_L1B	synchronized	285.590735	104.0	3.816421
2024-09-30	OFFL_L2	synchronized	8.473634	16.0	196.374387
2024-09-01	s1_ew	NaN	16.676712	7.0	NaN
2024-09-01	s2_l1c	NaN	274.482002	482.0	NaN
2024-09-01	s1_iw	NaN	37.260723	21.0	NaN
2024-09-01	s2_l2a	NaN	5.881111	8.0	NaN
2024-09-02	s2_l2a	NaN	28.116276	0.0	NaN

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2024-09-02	s2_l1c	NaN	194.944557	347.0	NaN
2024-09-02	s1_ew	NaN	14.046265	5.0	NaN
2024-09-02	s1_iw	NaN	61.210560	36.0	NaN
2024-09-03	s1_iw	NaN	19.702728	13.0	NaN
2024-09-03	s1_ew	NaN	20.230541	9.0	NaN
2024-09-03	s2_l1c	NaN	238.642872	421.0	NaN
2024-09-03	s2_l2a	NaN	2.702362	4.0	NaN
2024-09-04	s1_iw	NaN	46.907654	36.0	NaN
2024-09-04	s1_ew	NaN	13.746555	7.0	NaN
2024-09-04	s2_l1c	NaN	317.976658	512.0	NaN
2024-09-04	s2_l2a	NaN	1.190063	4.0	NaN
2024-09-05	s2_l2a	NaN	1.676056	3.0	NaN
2024-09-05	s2_l1c	NaN	276.753952	475.0	NaN
2024-09-05	s1_iw	NaN	41.737553	11.0	NaN
2024-09-05	s1_ew	NaN	8.940060	3.0	NaN
2024-09-06	s1_iw	NaN	46.472561	11.0	NaN
2024-09-06	s1_ew	NaN	9.070698	3.0	NaN
2024-09-06	s2_l1c	NaN	281.062889	476.0	NaN
2024-09-06	s2_l2a	NaN	5.820236	8.0	NaN
2024-09-07	s1_iw	NaN	69.064583	17.0	NaN
2024-09-07	s1_ew	NaN	11.848759	4.0	NaN
2024-09-07	s2_l1c	NaN	279.523605	488.0	NaN
2024-09-07	s2_l2a	NaN	28.102886	0.0	NaN
2024-09-08	s2_l2a	NaN	6.191410	8.0	NaN
2024-09-08	s2_l1c	NaN	283.051765	468.0	NaN
2024-09-08	s1_iw	NaN	24.806477	17.0	NaN
2024-09-08	s1_ew	NaN	25.524891	12.0	NaN
2024-09-09	s1_iw	NaN	58.634636	38.0	NaN
2024-09-09	s1_ew	NaN	20.538082	9.0	NaN
2024-09-09	s2_l1c	NaN	279.412399	461.0	NaN
2024-09-09	s2_l2a	NaN	1.120598	4.0	NaN
2024-09-10	s2_l2a	NaN	1.852367	3.0	NaN
2024-09-10	s1_iw	NaN	18.719990	13.0	NaN
2024-09-10	s1_ew	NaN	19.960636	11.0	NaN
2024-09-10	s2_l1c	NaN	254.516319	432.0	NaN
2024-09-11	s2_l2a	NaN	5.580975	8.0	NaN
2024-09-11	s2_l1c	NaN	285.889515	469.0	NaN
2024-09-11	s1_iw	NaN	55.905998	39.0	NaN
2024-09-11	s1_ew	NaN	11.086544	7.0	NaN
2024-09-12	s2_l1c	NaN	223.409958	380.0	NaN
2024-09-12	s1_iw	NaN	53.999298	14.0	NaN
2024-09-12	s1_ew	NaN	12.503040	4.0	NaN
2024-09-12	s2_l2a	NaN	28.102959	0.0	NaN
2024-09-13	s2_l2a	NaN	6.636253	8.0	NaN
2024-09-13	s2_l1c	NaN	292.986881	508.0	NaN
2024-09-13	s1_iw	NaN	32.387566	7.0	NaN
2024-09-13	s1_ew	NaN	19.206203	6.0	NaN
2024-09-14	s1_iw	NaN	62.442295	14.0	NaN
2024-09-14	s1_ew	NaN	14.165310	5.0	NaN
2024-09-14	s2_l1c	NaN	300.920170	493.0	NaN
2024-09-14	s2_l2a	NaN	1.552094	4.0	NaN
2024-09-15	s1_iw	NaN	21.695789	14.0	NaN
2024-09-15	s1_ew	NaN	20.173073	9.0	NaN
2024-09-15	s2_l1c	NaN	292.846489	478.0	NaN
2024-09-15	s2_l2a	NaN	1.678276	3.0	NaN
2024-09-16	s2_l2a	NaN	27.650158	0.0	NaN

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2024-09-16	s2_l1c	NaN	284.806625	490.0	NaN
2024-09-16	s1_iw	NaN	39.724354	34.0	NaN
2024-09-16	s1_ew	NaN	18.257072	9.0	NaN
2024-09-17	s1_iw	NaN	38.667892	23.0	NaN
2024-09-17	s1_ew	NaN	9.102013	3.0	NaN
2024-09-17	s2_l1c	NaN	274.046696	466.0	NaN
2024-09-17	s2_l2a	NaN	27.651073	0.0	NaN
2024-09-18	s2_l2a	NaN	6.426720	8.0	NaN
2024-09-18	s2_l1c	NaN	229.553677	399.0	NaN
2024-09-18	s1_ew	NaN	8.874165	3.0	NaN
2024-09-18	s1_iw	NaN	34.272339	24.0	NaN
2024-09-19	s1_iw	NaN	61.589600	16.0	NaN
2024-09-19	s1_ew	NaN	13.344086	5.0	NaN
2024-09-19	s2_l1c	NaN	190.550888	328.0	NaN
2024-09-19	s2_l2a	NaN	1.578972	4.0	NaN
2024-09-20	s2_l1c	NaN	234.399742	397.0	NaN
2024-09-20	s2_l2a	NaN	1.717014	2.0	NaN
2024-09-20	s1_iw	NaN	21.659626	5.0	NaN
2024-09-20	s1_ew	NaN	22.278133	7.0	NaN
2024-09-21	s1_iw	NaN	44.626286	11.0	NaN
2024-09-21	s1_ew	NaN	14.580788	5.0	NaN
2024-09-21	s2_l1c	NaN	236.724174	408.0	NaN
2024-09-21	s2_l2a	NaN	27.651161	0.0	NaN
2024-09-22	s2_l1c	NaN	226.484447	392.0	NaN
2024-09-22	s1_iw	NaN	24.183208	14.0	NaN
2024-09-22	s1_ew	NaN	19.724915	9.0	NaN
2024-09-22	s2_l2a	NaN	27.643288	0.0	NaN
2024-09-23	s2_l2a	NaN	6.888748	8.0	NaN
2024-09-23	s2_l1c	NaN	209.150021	357.0	NaN
2024-09-23	s1_ew	NaN	9.838692	6.0	NaN
2024-09-23	s1_iw	NaN	50.139374	38.0	NaN
2024-09-24	s1_iw	NaN	58.617554	32.0	NaN
2024-09-24	s1_ew	NaN	13.681252	6.0	NaN
2024-09-24	s2_l1c	NaN	197.092407	341.0	NaN
2024-09-24	s2_l2a	NaN	1.479527	4.0	NaN
2024-09-25	s1_iw	NaN	28.069248	19.0	NaN
2024-09-25	s1_ew	NaN	21.576279	10.0	NaN
2024-09-25	s2_l1c	NaN	183.062641	318.0	NaN
2024-09-25	s2_l2a	NaN	1.833839	3.0	NaN
2024-09-26	s2_l2a	NaN	5.938763	8.0	NaN
2024-09-26	s2_l1c	NaN	177.590130	301.0	NaN
2024-09-26	s1_iw	NaN	46.916813	11.0	NaN
2024-09-26	s1_ew	NaN	20.745979	7.0	NaN
2024-09-27	s1_iw	NaN	20.417404	5.0	NaN
2024-09-27	s1_ew	NaN	18.698692	6.0	NaN
2024-09-27	s2_l1c	NaN	174.139256	308.0	NaN
2024-09-27	s2_l2a	NaN	27.643356	0.0	NaN
2024-09-28	s2_l2a	NaN	6.605152	8.0	NaN
2024-09-28	s2_l1c	NaN	163.206699	285.0	NaN
2024-09-28	s1_ew	NaN	11.910492	4.0	NaN
2024-09-28	s1_iw	NaN	48.489368	12.0	NaN
2024-09-29	s1_iw	NaN	42.864395	26.0	NaN
2024-09-29	s1_ew	NaN	9.234928	3.0	NaN
2024-09-29	s2_l1c	NaN	145.852917	264.0	NaN
2024-09-29	s2_l2a	NaN	1.430008	4.0	NaN
2024-09-30	s2_l1c	NaN	139.719761	250.0	NaN

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2024-09-30	s2_l2a	NaN	1.690968	3.0	NaN
2024-09-30	s1_iw	NaN	49.540180	26.0	NaN
2024-09-30	s1_ew	NaN	9.195755	3.0	NaN

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