NBS monthly report - 2024 February

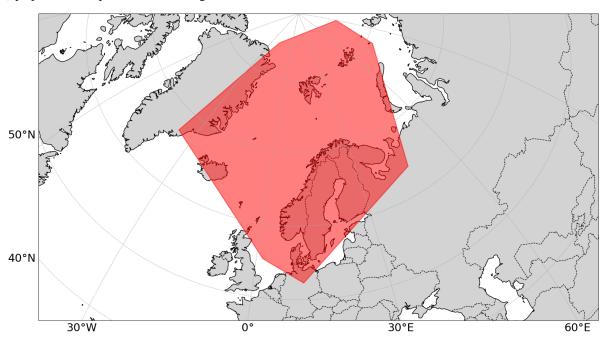
MET Norway - NBS team

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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

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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.

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CHAPTER

ONE

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	Nb of prod-	Vol-
						users	ucts	ume
colhub.met.no	8228	11734	13177	23111	12121	20	30545	9.145
colhub-archive.met.no	8231	11617	13045	18654	11959	8	1253	1.096
datas-	8609	13784	13784	18111	0			
pace.copernicus.eu								

Finally, the total amount of disk space dedicated to the NBS project, including either products in SAFE and NetCDF formats, represents 5343 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 5597 Tb; while in 12 months it is forecast to become 7005 Tb.

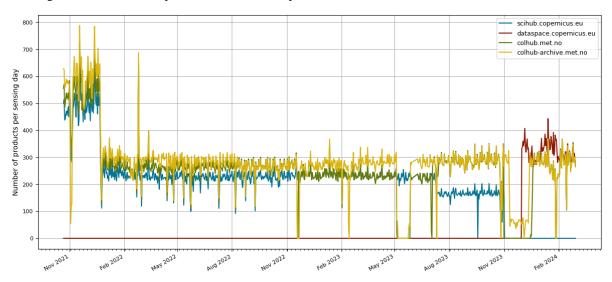
SENTINEL-1 PRODUCTS

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

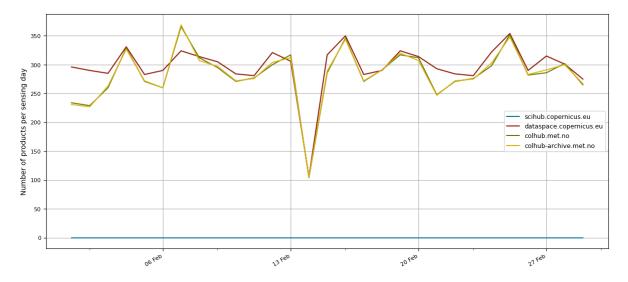
Note that scihub is no longer in operation but is included for historical comparisons.

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.



A table is also included for more detailed information.

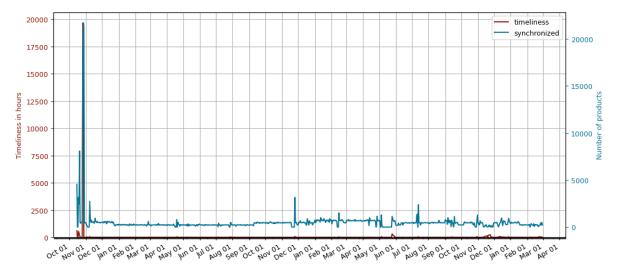
	colhub.met.no	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-02-01	234.0	296.0	231.0
2024-02-02	229.0	290.0	227.0
2024-02-03	260.0	285.0	263.0
2024-02-04	329.0	331.0	327.0
2024-02-05	271.0	283.0	272.0
2024-02-06	260.0	290.0	260.0
2024-02-07	366.0	324.0	369.0
2024-02-08	312.0	314.0	307.0
2024-02-09	295.0	305.0	297.0
2024-02-10	271.0	284.0	272.0
2024-02-11	277.0	281.0	276.0
2024-02-12	300.0	321.0	304.0
2024-02-13	317.0	306.0	312.0
2024-02-14	104.0	106.0	105.0
2024-02-15	286.0	317.0	289.0
2024-02-16	346.0	350.0	344.0
2024-02-17	271.0	283.0	272.0
2024-02-18	291.0	290.0	291.0
2024-02-19	317.0	324.0	320.0
2024-02-20	312.0	314.0	307.0
2024-02-21	248.0	293.0	247.0
2024-02-22	271.0	284.0	272.0
2024-02-23	276.0	281.0	275.0
2024-02-24	298.0	322.0	303.0
2024-02-25	352.0	354.0	348.0
2024-02-26	282.0	290.0	283.0
2024-02-27	286.0	315.0	291.0
2024-02-28	302.0	301.0	300.0
2024-02-29	265.0	275.0	267.0

The overall total number of Sentinel-1 products is 1931627. The number of overall Sentinel-1 missing products consists of -463042 images. This represents that a 1300% of the total was included in MET Norway DHR, while a -1200% was not included.

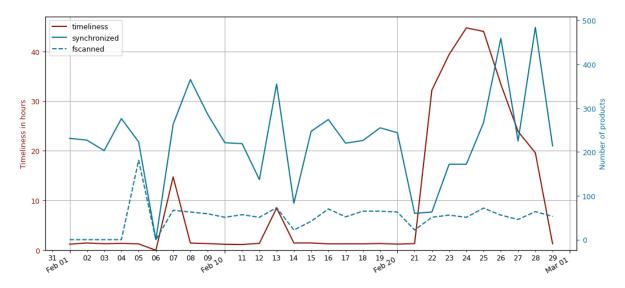
The total number of Sentinel-1 products in February is 500337. The number of Sentinel-1 missing products during February consists of 436831 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

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.



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

	size	number	timeliness
day			
2024-02-01	580.014398	231	1.230434
2024-02-02	566.429863	227	1.468255
2024-02-03	559.359479	203	1.320186
2024-02-04	723.438385	276	1.392314
2024-02-05	501.141588	223	1.284051
2024-02-06	0.000000	0	0.000000
2024-02-07	717.975864	263	14.761342
2024-02-08	913.582779	365	1.451917
2024-02-09	748.085454	286	1.346000
2024-02-10	487.638012	221	1.203431
2024-02-11	547.996228	219	1.159422
2024-02-12	276.134050	137	1.390523
2024-02-13	907.976944	355	8.497282
2024-02-14	216.475304	83	1.466852
2024-02-15	623.067961	247	1.471276
2024-02-16	715.299857	274	1.287537
2024-02-17	493.553079	220	1.300656
2024-02-18	589.639713	226	1.295368
2024-02-19	632.716473	255	1.362120
2024-02-20	596.989758	244	1.238692
2024-02-21	155.062268	60	1.339866
2024-02-22	153.013838	63	32.210068
2024-02-23	427.682046	172	39.387214
2024-02-24	364.146568	172	44.737534
2024-02-25	696.181259	267	44.020669
2024-02-26	1120.668470	459	33.405334
2024-02-27	565.436604	225	23.891356
2024-02-28	1229.086797	484	19.614235
2024-02-29	471.965481	214	1.306830

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

```
size number timeliness (continues on next page)
```

(continued from previous page)

				(continued from pre
day				
2024-02-01	0.000000	0	0.00000	
2024-02-02	0.000000	0	0.00000	
2024-02-03	0.00000	0	0.00000	
2024-02-04	0.00000	0	0.00000	
2024-02-05	203.267270	181	29.647573	
2024-02-06	0.00000	0	0.00000	
2024-02-07	92.007281	67	6.743501	
2024-02-08	70.515797	63	0.634156	
2024-02-09	74.790459	59	0.690682	
2024-02-10	53.067271	51	0.601083	
2024-02-11	76.796374	57	0.810465	
2024-02-12	60.619547	51	0.697013	
2024-02-13	75.619397	73	0.700422	
2024-02-14	27.408825	22	0.798270	
2024-02-15	53.733575	42	0.855301	
2024-02-16	89.282987	70	0.831686	
2024-02-17	50.472558	52	0.603312	
2024-02-18	75.683452	65	0.701857	
2024-02-19	88.863568	65	0.866038	
2024-02-20	68.447158	63	0.637748	
2024-02-21	66.531302	22	0.700372	
2024-02-22	52.044335	51	0.600842	
2024-02-23	73.049230	56	0.720384	
2024-02-24	63.673783	51	0.693335	
2024-02-25	73.664047	72	0.705490	
2024-02-26	73.324503	56	0.693120	
2024-02-27	58.215100	46	0.782049	
2024-02-28	80.610792	64	0.853572	
2024-02-29	50.642016	53	0.603195	

3.3. Data ingestion

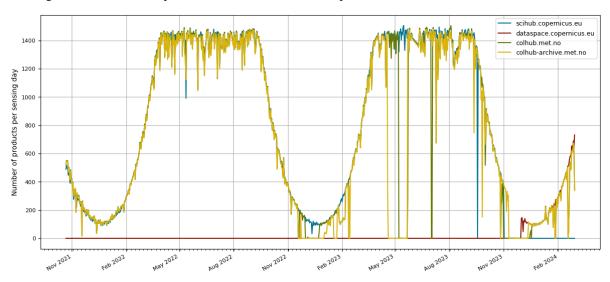
SENTINEL-2 LEVEL-1C PRODUCTS

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.

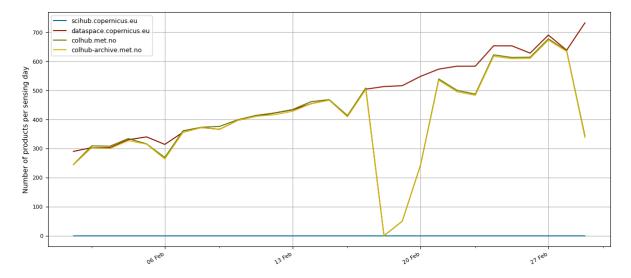
Note that scihub is no longer in operation but is included for historical comparisons.

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.



A table is also included for more detailed information.

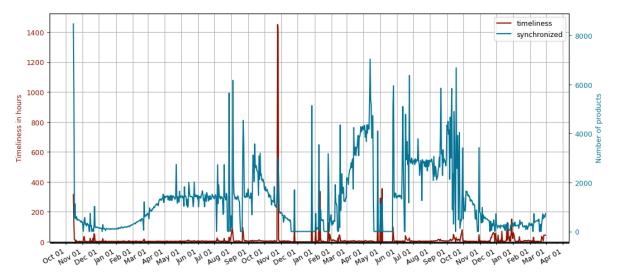
	colhub.met.no		
	0011100111001110	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-02-01	245.0	290.0	244.0
2024-02-02	309.0	303.0	303.0
2024-02-03	308.0	303.0	300.0
2024-02-04	334.0	330.0	327.0
2024-02-05	316.0	340.0	315.0
2024-02-06	269.0	314.0	264.0
2024-02-07	361.0	356.0	356.0
2024-02-08	373.0	372.0	372.0
2024-02-09	376.0	366.0	366.0
2024-02-10	399.0	397.0	397.0
2024-02-11	414.0	411.0	411.0
2024-02-12	422.0	422.0	416.0
2024-02-13	434.0	433.0	428.0
2024-02-14	461.0	454.0	454.0
2024-02-15	468.0	467.0	466.0
2024-02-16	413.0	412.0	409.0
2024-02-17	508.0	504.0	503.0
2024-02-18	0.0	513.0	0.0
2024-02-19	50.0	516.0	50.0
2024-02-20	243.0	548.0	242.0
2024-02-21	539.0	573.0	535.0
2024-02-22	500.0	583.0	495.0
2024-02-23	487.0	583.0	483.0
2024-02-24	622.0	653.0	617.0
2024-02-25	613.0	653.0	609.0
2024-02-26	614.0	628.0	610.0
2024-02-27	677.0	690.0	673.0
2024-02-28	636.0	638.0	634.0
2024-02-29	343.0	732.0	338.0

The overall total number of Sentinel-2 Level-1C products is 1931627. The number of overall Sentinel-2 Level-1C missing products consists of -463042 images. This represents that a 1300% of the total was included in MET Norway DHR, while a -1200% was not included.

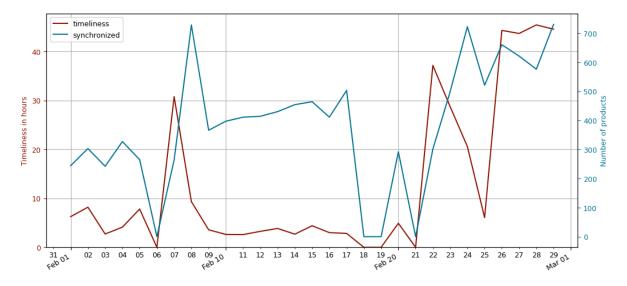
The total number of Sentinel-2 Level-1C products in February is 500337. The number of Sentinel-2 Level-1C missing products during February consists of 436831 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

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.



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

	size	number	timeliness
day	3126	maniber	CIMEIIIESS
2024-02-01	107.829805	244	6.253319
2024-02-02	134.743199	303	8.189798
2024-02-03	110.906252	242	2.712056
2024-02-04	146.341298	327	4.106852
2024-02-05	118.414061	265	7.809717
2024-02-06	0.000000	0	0.000000
2024-02-07	117.862792	264	30.767050
2024-02-08	343.763925	728	9.332121
2024-02-09	173.629334	366	3.575614
2024-02-10	182.499279	397	2.619984
2024-02-11	183.921559	411	2.595879
2024-02-12	186.986464	414	3.256067
2024-02-13	193.840661	430	3.845112
2024-02-14	206.718546	454	2.678913
2024-02-15	209.921589	464	4.400218
2024-02-16	182.605898	411	2.993046
2024-02-17	221.609680	503	2.834109
2024-02-18	0.000000	0	0.000000
2024-02-19	0.000000	0	0.000000
2024-02-20	134.722048	292	4.903643
2024-02-21	0.000000	0	0.000000
2024-02-22	128.966144	301	37.151518
2024-02-23	204.019838	498	28.747916
2024-02-24	309.028233	722	20.589572
2024-02-25	220.377621	521	6.075357
2024-02-26	289.942439	660	44.294968
2024-02-27	276.132066	621	43.673452
2024-02-28	248.694337	576	45.423308
2024-02-29	324.410330	730	44.540245

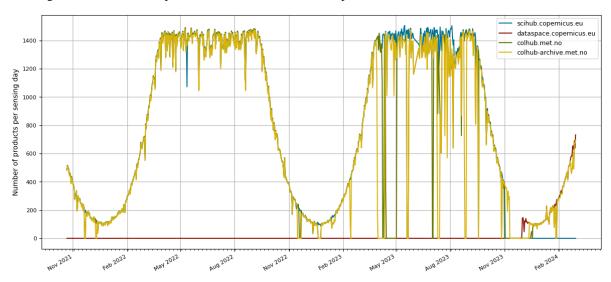
SENTINEL-2 LEVEL-2A PRODUCTS

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.

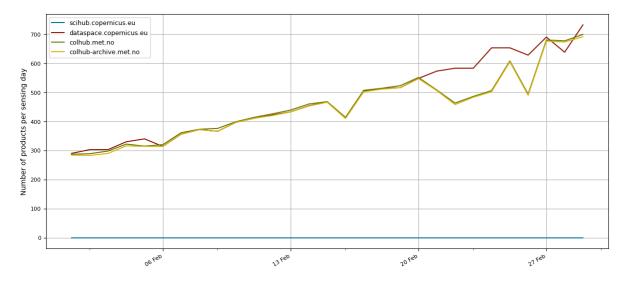
Note that scihub is no longer in operation but is included for historical comparisons.

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.



A table is also included for more detailed information.

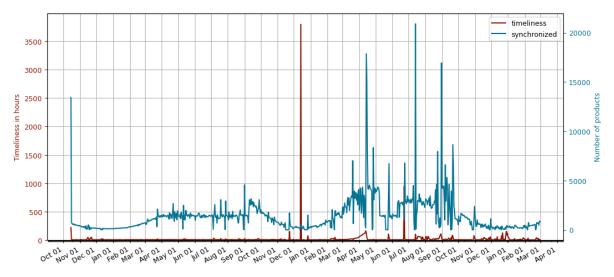
	colhub.met.no	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-02-01	287.0	290.0	284.0
2024-02-02	289.0	303.0	283.0
2024-02-03	298.0	303.0	290.0
2024-02-04	322.0	330.0	316.0
2024-02-05	315.0	340.0	314.0
2024-02-06	320.0	314.0	314.0
2024-02-07	361.0	356.0	356.0
2024-02-08	373.0	372.0	372.0
2024-02-09	376.0	366.0	366.0
2024-02-10	399.0	397.0	397.0
2024-02-11	414.0	411.0	411.0
2024-02-12	426.0	422.0	420.0
2024-02-13	439.0	433.0	433.0
2024-02-14	460.0	454.0	453.0
2024-02-15	468.0	467.0	466.0
2024-02-16	414.0	412.0	410.0
2024-02-17	507.0	504.0	502.0
2024-02-18	514.0	513.0	511.0
2024-02-19	523.0	516.0	516.0
2024-02-20	551.0	548.0	547.0
2024-02-21	508.0	573.0	506.0
2024-02-22	463.0	583.0	458.0
2024-02-23	486.0	583.0	483.0
2024-02-24	506.0	653.0	502.0
2024-02-25	608.0	653.0	605.0
2024-02-26	494.0	628.0	490.0
2024-02-27	680.0	690.0	676.0
2024-02-28	677.0	638.0	673.0
2024-02-29	699.0	732.0	691.0

The overall total number of Sentinel-2 Level-2A products is 1931627. The number of overall Sentinel-2 Level-2A missing products consists of -463042 images. This represents that a 1300% of the total was included in MET Norway DHR, while a -1200% was not included.

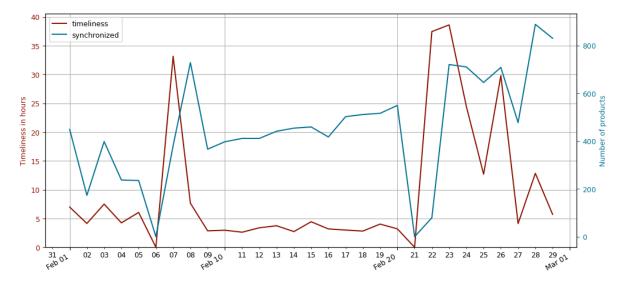
The total number of Sentinel-2 level-2A products in February is 500337. The number of Sentinel-2 level-2A missing products during February consists of 436831 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

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.



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

	size	number	timeliness
day			
2024-02-01	250.498257	449	6.979294
2024-02-02	88.480951	173	4.138810
2024-02-03	237.287490	398	7.490376
2024-02-04	118.315488	237	4.242605
2024-02-05	130.433910	235	6.047221
2024-02-06	0.000000	0	0.000000
2024-02-07	223.537255	381	33.159269
2024-02-08	443.185611	728	7.653697
2024-02-09	221.238548	366	2.856008
2024-02-10	232.987326	397	2.962666
2024-02-11	237.301178	411	2.618061
2024-02-12	241.013584	411	3.384226
2024-02-13	255.261906	441	3.739654
2024-02-14	261.666128	454	2.722198
2024-02-15	260.390000	459	4.431781
2024-02-16	233.752622	417	3.186472
2024-02-17	279.373702	502	2.989599
2024-02-18	306.639682	511	2.814510
2024-02-19	289.881023	516	4.024277
2024-02-20	301.582162	549	3.200636
2024-02-21	0.000000	0	0.000000
2024-02-22	39.206626	79	37.439398
2024-02-23	386.967157	720	38.598897
2024-02-24	375.054424	710	24.447978
2024-02-25	334.638034	645	12.689211
2024-02-26	384.324093	708	29.787089
2024-02-27	274.211265	477	4.117689
2024-02-28	482.421522	888	12.831296
2024-02-29	445.874041	830	5.720978

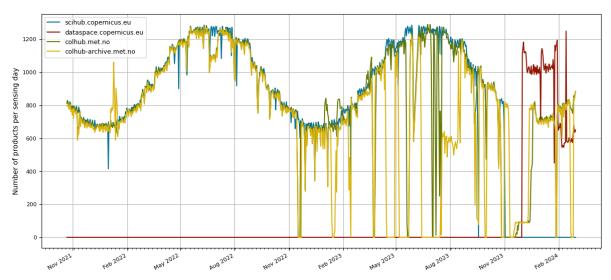
SENTINEL-3 PRODUCTS

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

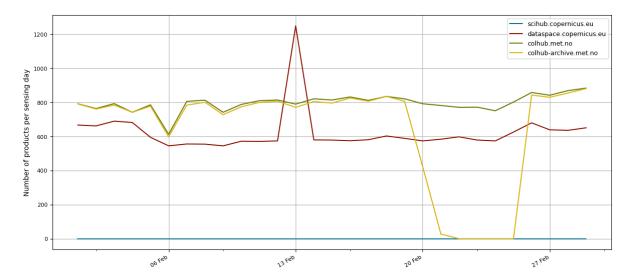
Note that scihub is no longer in operation but is included for historical comparisons.

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.



A table is also included for more detailed information.

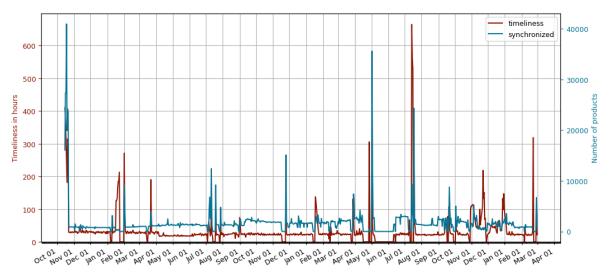
	colhub.met.no	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-02-01	792.0	667.0	791.0
2024-02-02	764.0	662.0	761.0
2024-02-03	793.0	690.0	784.0
2024-02-04	742.0	682.0	742.0
2024-02-05	786.0	595.0	778.0
2024-02-06	613.0	545.0	598.0
2024-02-07	806.0	556.0	784.0
2024-02-08	813.0	555.0	801.0
2024-02-09	742.0	545.0	728.0
2024-02-10	788.0	572.0	774.0
2024-02-11	810.0	571.0	800.0
2024-02-12	814.0	574.0	807.0
2024-02-13	790.0	1249.0	771.0
2024-02-14	821.0	580.0	805.0
2024-02-15	814.0	579.0	796.0
2024-02-16	832.0	575.0	826.0
2024-02-17	812.0	581.0	807.0
2024-02-18	835.0	603.0	835.0
2024-02-19	821.0	589.0	807.0
2024-02-20	792.0	574.0	422.0
2024-02-21	782.0	584.0	28.0
2024-02-22	771.0	598.0	0.0
2024-02-23	772.0	579.0	0.0
2024-02-24	751.0	574.0	0.0
2024-02-25	802.0	626.0	0.0
2024-02-26	858.0	680.0	843.0
2024-02-27	842.0	639.0	830.0
2024-02-28	869.0	636.0	855.0
2024-02-29	884.0	651.0	881.0

The overall total number of Sentinel-3 products is 1931627. The number of overall Sentinel-3 missing products consists of -463042 images. This represents that a 1300% of the total was included in MET Norway DHR, while a -1200% was not included.

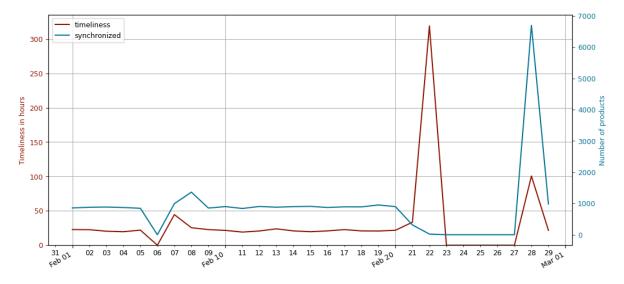
The total number of Sentinel-3 products in February is 500337. The number of Sentinel-3 missing products during February consists of 436831 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

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.



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

size 260.169383	numer	timeliness
260.169383		
	857	22.779318
256.949442	879	22.532472
		20.352107
		19.622038
		21.927235
		0.000000
		44.462306
		25.433495
		22.670194
		21.540025
		19.101655
		20.696294
		23.798784
		20.801404
		19.638787
		20.816818
		22.661301
		20.796341
		20.649396
282.243517	900	21.712314
118.622880	313	33.413100
8.434572	21	318.924876
0.00000	0	0.000000
0.00000	0	0.000000
0.000000	0	0.000000
0.00000	0	0.000000
0.00000	0	0.000000
2007.591766	6695	100.562646
302.196601	984	21.598211
	271.361210 258.365433 262.759613 0.000000 306.367560 411.319245 265.366219 267.173898 245.645688 291.025450 277.011356 278.432392 279.130642 270.634232 280.049822 275.223004 289.813321 282.243517 118.622880 8.434572 0.000000 0.000000 0.000000 0.000000 2007.591766	271.361210 886 258.365433 871 262.759613 846 0.000000 0 306.367560 995 411.319245 1362 265.366219 854 267.173898 900 245.645688 840 291.025450 904 277.011356 881 278.432392 899 279.130642 908 270.634232 872 280.049822 893 275.223004 891 289.813321 952 282.243517 900 118.622880 313 8.434572 21 0.000000 0 0.000000 0 0.000000 0 0.000000 0 0.000000 0 0.000000 0 0.000000 0 0.000000 0 0.007.591766 6695

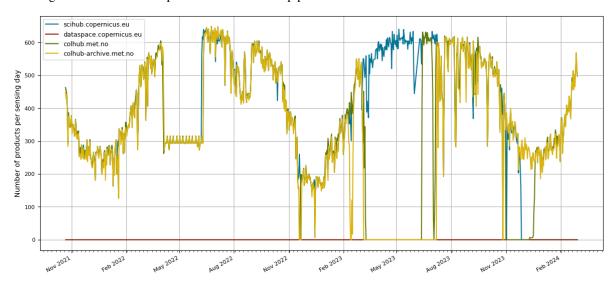
SENTINEL-5P PRODUCTS

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

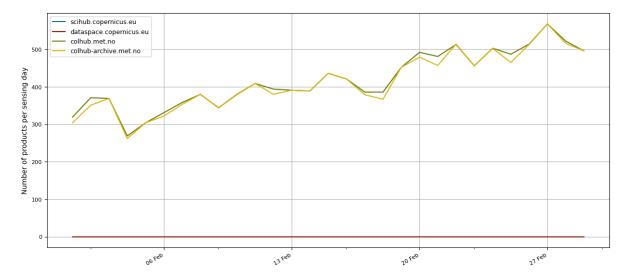
Note that scihub is no longer in operation but is included for historical comparisons.

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.



A table is also included for more detailed information.

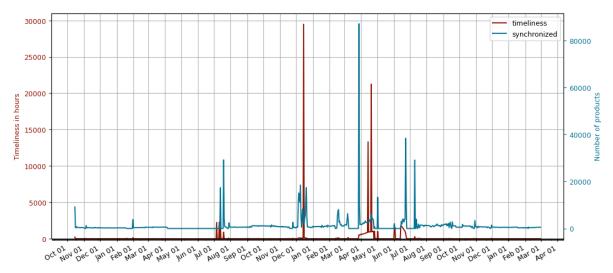
	colhub.met.no	dataspace.copernicus.eu	colhub-archive.met.no
sensing_date			
2024-02-01	319.0	0.0	304.0
2024-02-02	371.0	0.0	351.0
2024-02-03	369.0	0.0	369.0
2024-02-04	269.0	0.0	262.0
2024-02-05	304.0	0.0	304.0
2024-02-06	331.0	0.0	322.0
2024-02-07	358.0	0.0	353.0
2024-02-08	380.0	0.0	380.0
2024-02-09	344.0	0.0	344.0
2024-02-10	380.0	0.0	379.0
2024-02-11	409.0	0.0	409.0
2024-02-12	394.0	0.0	380.0
2024-02-13	391.0	0.0	391.0
2024-02-14	389.0	0.0	389.0
2024-02-15	436.0	0.0	436.0
2024-02-16	421.0	0.0	421.0
2024-02-17	386.0	0.0	379.0
2024-02-18	386.0	0.0	367.0
2024-02-19	452.0	0.0	452.0
2024-02-20	492.0	0.0	479.0
2024-02-21	481.0	0.0	457.0
2024-02-22	513.0	0.0	514.0
2024-02-23	456.0	0.0	456.0
2024-02-24	503.0	0.0	503.0
2024-02-25	487.0	0.0	465.0
2024-02-26	514.0	0.0	513.0
2024-02-27	568.0	0.0	568.0
2024-02-28	522.0	0.0	516.0
2024-02-29	496.0	0.0	496.0

The overall total number of Sentinel-5p products is 1931627. The number of overall Sentinel-5p missing products consists of -463042 images. This represents that a 1300% of the total was included in MET Norway DHR, while a -1200% was not included.

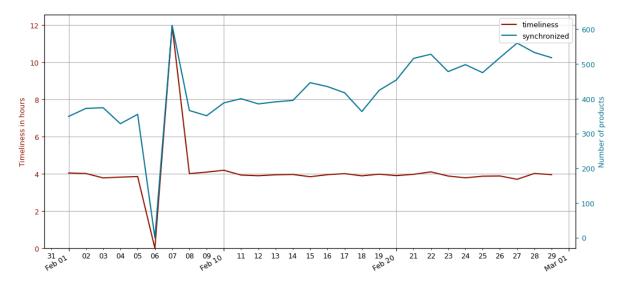
The total number of Sentinel-5p products in February is 500337. The number of Sentinel-5p missing products during February consists of 436831 images. This represents that a 0% of the total was included in MET Norway DHR, while a 100% was not included.

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.



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

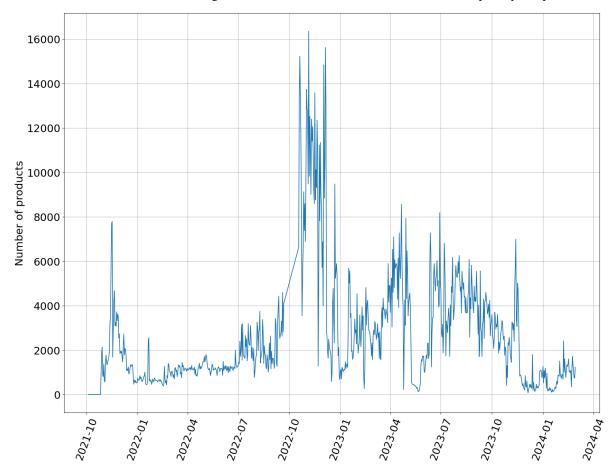
	size	number	timeliness
day			
2024-02-01	227.720525	349	4.047341
2024-02-02	246.680087	372	4.020266
2024-02-03	242.237159	374	3.782828
2024-02-04	199.085743	328	3.823864
2024-02-05	232.893538	355	3.856756
2024-02-06	0.000000	0	0.000000
2024-02-07	398.351037	611	11.953652
2024-02-08	259.319020	366	4.012970
2024-02-09	265.455688	351	4.094060
2024-02-10	265.698053	388	4.193745
2024-02-11	268.503536	400	3.934424
2024-02-12	277.242075	385	3.899827
2024-02-13	289.441058	391	3.949554
2024-02-14	271.223600	395	3.966261
2024-02-15	296.772818	446	3.846787
2024-02-16	294.723583	435	3.955182
2024-02-17	295.552086	417	4.012578
2024-02-18	277.081936	363	3.894265
2024-02-19	280.846363	424	3.981462
2024-02-20	312.179373	454	3.905543
2024-02-21	347.906169	516	3.974992
2024-02-22	375.623993	528	4.107047
2024-02-23	330.520345	478	3.883701
2024-02-24	348.488836	498	3.787156
2024-02-25	348.194246	475	3.874193
2024-02-26	369.546594	518	3.886342
2024-02-27	398.627899	560	3.707793
2024-02-28	377.137645	533	4.022680
2024-02-29	372.931596	518	3.957141

MONITORING DATA DOWNLOADS FROM COLHUB PORTALS

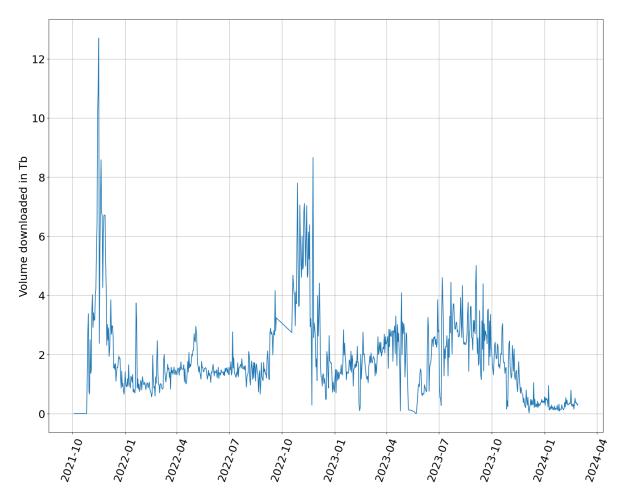
In this section the performance of the FrontEnds is analyzed, for both colhub.met.no and colhub-archive.met.no. The FEs performance is translated as user accessibility to the data which is one of the main goals for the project.

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.

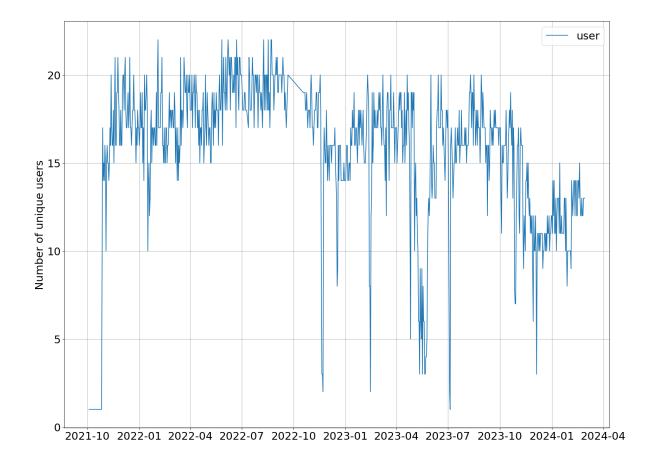
satellite	product_type	
S1	GRDH	239838
	GRDM	104380
	OCN	85237
	RAW	196352
	SLC	62792
S2	MSIL1C	473986
	MSIL1C_DTERRENG	3100
	MSIL2A	1035546
S3	OLCI_L1	7153
	OLCI_L2	490
	SLSTR_L1	6930
	SLSTR_L2	12
	SRAL_L1	23
	SRAL_L2	83
	SYN_L2	39
S5	NRTI_L2	6439
	OFFL_L1B	3
	OFFL_L2	6
dtype: int	.64	

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.

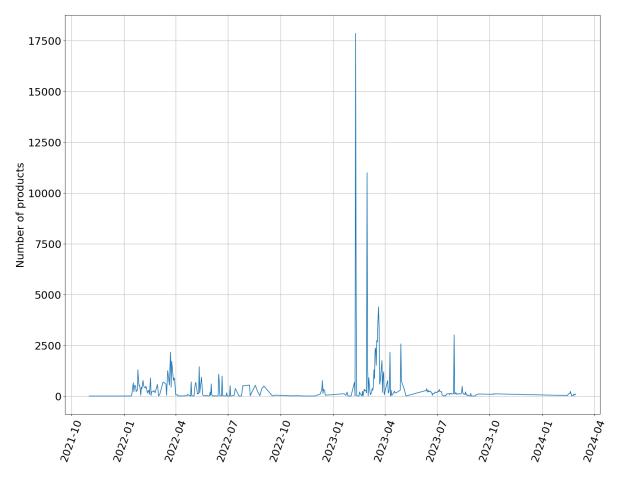
download_time	download_time	
2021	10	7.588303
2021	11	158.654049
	12	57.675128
2022	1	36.406545
	2	29.798405
	3	39.869718
	4	46.768604
	5	51.219186
	6	42.277098
	7	44.565096
	8	42.852304
	9	47.447532
	10	60.491409
	11	141.031091
	12	50.957670
2023	1	48.169138
	2	41.604374
	3	61.866205
	4	74.137962
	5	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	9.170225
Name: size, dt	ype: 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.



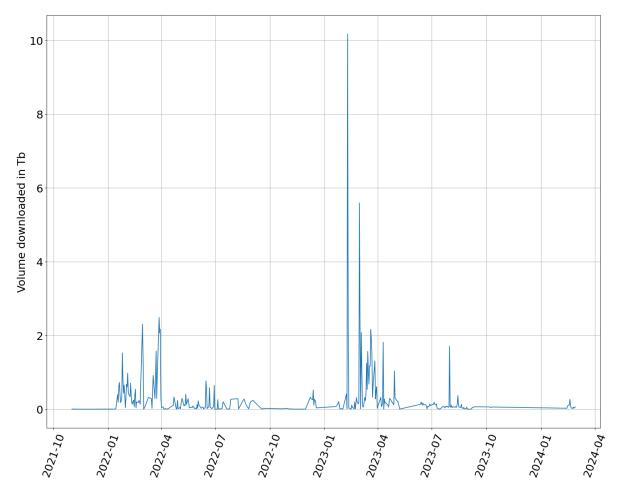
8.2 Portal: colhub-archive.met.no

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.

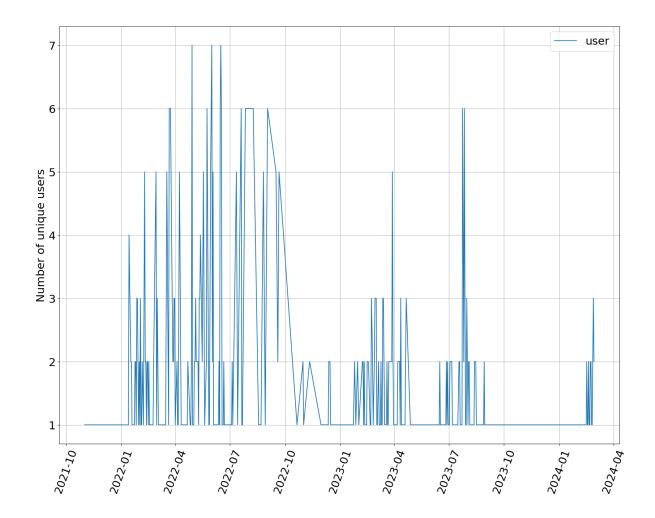
satellite	product_type	
S1	GRDH	31461
	GRDM	8066
	OCN	1
	RAW	131
	SLC	3219
S2	MSIL1C	34519
	MSIL1C_DTERRENG	16832
	MSIL2A	43784
S3	OLCI_L1	1
	SLSTR_L1	2
	SRAL_L1	4
	SRAL_L2	158
S5	OFFL_L2	1
dtype: int	64	

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

download_time	download_time		
2021	December	0.000696	
	November	0.005186	
			(continues on next page)

			(continued from previous page
2022	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	
	November	0.011412	
	October	0.030705	
	September	0.289683	
2023	April	5.010196	
	August	1.931697	
	February	14.316868	
	January	0.417223	
	July	3.804772	
	June	2.082679	
	March	27.805556	
	May	0.196331	
	October	0.276372	
	September	0.220003	
2024	February	1.096300	
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.



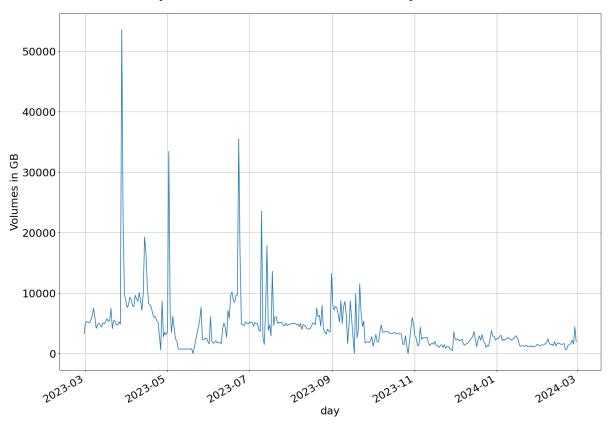
DATA VOLUMES FOR NBS

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.

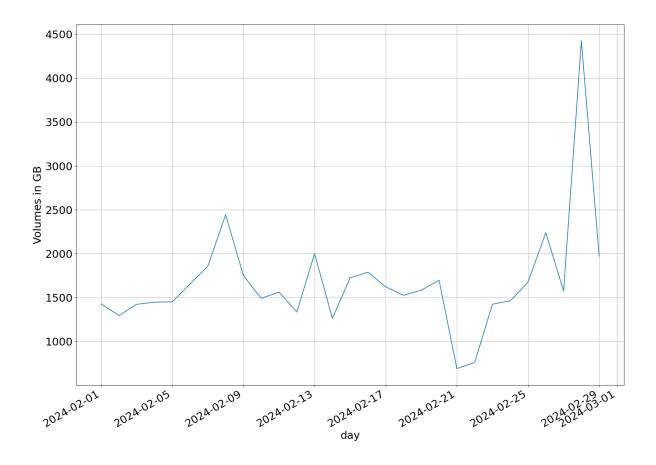
9.1 Volumes for AOI backends

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.





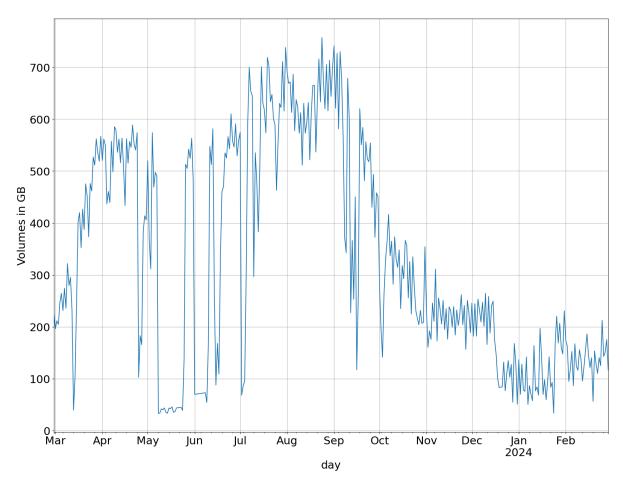
In the graphic above the volume of data per day in GB is shown for the last year. Here we can observed seasonality due to optical sensor products. The table below shows the same information for the last month.



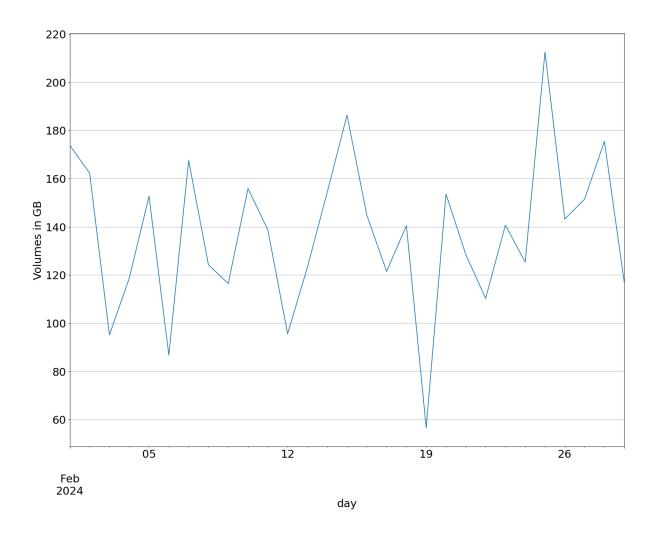
9.2 Volume for netcdf products

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

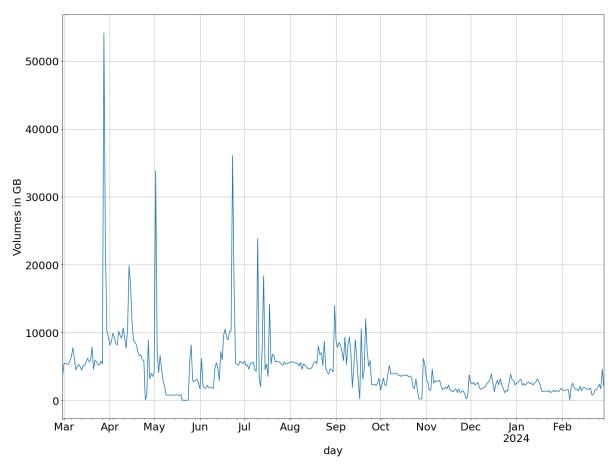


In the graphic above the volume of NetCDF-CF data per day in GB is shown for the last year. Here we can observed seasonality due to optical sensor products. The table below shows the same information for the last 30 days.



9.3 Totals

Finally, the total amount of disk space dedicated to the NBS project, including either products in SAFE and NetCDF formats, represents 5408 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.

	product_type	action	volume	number	timeliness
day					
2024-02-01	GRDH	synchronized	82.877824	50.0	1.239212
2024-02-01	GRDM	synchronized	5.634510	15.0	0.735671
2024-02-01	OCN	synchronized	0.940437	47.0	1.230434
2024-02-01	RAW	synchronized	92.461088	66.0	0.994638
2024-02-01	SLC	synchronized	398.100539	53.0	1.626266
2024-02-02	GRDH	synchronized	82.905269	50.0	1.326327
2024-02-02	GRDM	synchronized	5.112113	13.0	1.902589
2024-02-02	OCN	synchronized	0.943515	49.0	1.468255
2024-02-02	RAW	synchronized	90.822508	64.0	1.084389
2024-02-02	SLC	synchronized	386.646458	51.0	1.623154
2024-02-03	GRDH	synchronized	81.174098	50.0	1.252083
2024-02-03	GRDM	synchronized	2.712278	7.0	2.559259
2024-02-03	OCN	synchronized	0.627975	36.0	1.320186
2024-02-03	RAW	synchronized	83.512139	57.0	0.988135
2024-02-03	SLC	synchronized	391.332989	53.0	1.562269
2024-02-04	GRDH	synchronized	105.268204	64.0	1.392314
2024-02-04	GRDM	synchronized	5.100174	13.0	1.132932
2024-02-04	OCN	synchronized	1.010917	55.0	1.496529
2024-02-04	RAW	synchronized	110.980058	77.0	1.116508
2024-02-04	SLC	synchronized	501.079033	67.0	1.708024
2024-02-05	GRDH	fscanner	187.841391	66.0	29.415771

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2024-02-05	GRDH	synchronized	68.692132	41.0	1.284051	
2024-02-05	GRDM	fscanner	15.425880	115.0	29.879375	
2024-02-05	GRDM	synchronized	8.626263	22.0	0.834573	
2024-02-05	OCN	synchronized	1.131597	51.0	1.312873	
2024-02-05	RAW	synchronized	84.653471	65.0	1.012871	
2024-02-05	SLC	synchronized	338.038125	44.0	1.639385	
2024-02-07	GRDH	fscanner	86.600589	32.0	5.564544	
2024-02-07	GRDH	synchronized	103.771658	62.0	23.386964	
2024-02-07	GRDM	fscanner	5.406692	35.0	7.922458	
2024-02-07	GRDM	synchronized	4.460438	12.0	13.704792	
2024-02-07	OCN	synchronized	0.892995	50.0	14.761342	
2024-02-07	RAW	synchronized	105.909818	73.0	14.587388	
2024-02-07	SLC	synchronized	502.940955	66.0	23.498556	
2024-02-08	GRDH	fscanner	64.928223	23.0	0.677241	
2024-02-08	GRDH	synchronized	134.189695	81.0	1.451917	
2024-02-08	GRDM	fscanner	5.587574	40.0	0.591071	
2024-02-08	GRDM	synchronized	6.947827	21.0	1.101037	
2024-02-08	OCN	synchronized	1.376476	77.0	1.498727	
2024-02-08	RAW	synchronized	141.065001	102.0	1.102009	
2024-02-08	SLC	synchronized	630.003781	84.0	1.740891	
2024-02-09	GRDH	fscanner	69.274954	23.0	0.711551	
2024-02-09	GRDH	synchronized	108.223070	66.0	1.346000	
2024-02-09	GRDM	fscanner	5.515505	36.0	0.669813	
2024-02-09	GRDM	synchronized	5.502630	14.0	0.898532	
2024-02-09	OCN	synchronized	1.072706	57.0	1.442019	
2024-02-09	RAW	synchronized	114.593585	80.0	1.060118	
2024-02-09	SLC	synchronized	518.693463	69.0	1.683715	
2024-02-10	GRDH	fscanner	46.694791	16.0	0.595568	
2024-02-10	GRDH	synchronized	65.596601	39.0	1.280698	
2024-02-10	GRDM	fscanner	6.372480	35.0	0.606598	
2024-02-10	GRDM	synchronized	8.967052	24.0	0.823158	
2024-02-10	OCN	synchronized	1.160768	52.0	1.203431	
2024-02-10	RAW	synchronized	83.234864	63.0	0.920435	
2024-02-10	SLC	synchronized	328.678727	43.0	1.558437	
2024-02-11	GRDH	fscanner	73.105793	23.0	0.793218	
2024-02-11	GRDH	synchronized	78.165755	48.0	1.159422	
2024-02-11	GRDM	fscanner	3.690580	34.0	0.827713	
2024-02-11	GRDM	synchronized	5.305014	14.0	1.015248	
2024-02-11	OCN	synchronized	0.852548	44.0	1.222888	
2024-02-11	RAW	synchronized		62.0	0.940428	
2024-02-11	SLC	synchronized		51.0	1.524560	
2024-02-12	GRDH	fscanner	56.395110	21.0	0.728212	
2024-02-12	GRDH	synchronized	46.755317	28.0	1.390523	
2024-02-12	GRDM	fscanner	4.224437	30.0	0.665813	
2024-02-12	GRDM	synchronized	4.666599	12.0	1.156580	
2024-02-12	OCN	synchronized	0.704004	35.0	1.459334	
2024-02-12	RAW	synchronized	54.424062	40.0	1.034889	
2024-02-12	SLC	synchronized	169.584068	22.0	1.647104	
2024-02-13	GRDH	fscanner	68.731212	27.0	0.723207	
2024-02-13	GRDH	synchronized	123.148669	75.0	8.435628	
2024-02-13	GRDM	fscanner	6.888185	46.0	0.677638	
2024-02-13	GRDM	synchronized	8.398830	22.0	10.118823	
2024-02-13	OCN	synchronized	1.471389	75.0	8.509245	
2024-02-13	RAW	synchronized	134.893545	97.0	8.443899	
2024-02-13	SLC	synchronized	640.064511	86.0	8.497282	
2024-02-14	GRDH	fscanner	25.897485	8.0	0.700616	
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2024-02-14	GRDH	synchronized	32.840204	20.0	1.140752	
2024-02-14	GRDM	fscanner	1.511340	14.0	0.895925	
2024-02-14	GRDM	synchronized	1.024578	3.0	2.037637	
2024-02-14	OCN	synchronized	0.280204	17.0	2.085929	
2024-02-14	RAW	synchronized	32.918691	23.0	0.827676	
2024-02-14	SLC	synchronized	149.411628	20.0	1.466852	
2024-02-15	GRDH	fscanner	51.008772	17.0	0.996213	
2024-02-15	GRDH	synchronized	89.469811	55.0	1.379209	
2024-02-15	GRDM	fscanner	2.724804	25.0	0.714389	
2024-02-15	GRDM	synchronized	5.951288	15.0	2.459388	
2024-02-15	OCN	synchronized	0.988931	49.0	1.471276	
2024-02-15	RAW	synchronized	98.954751	70.0	1.231199	
2024-02-15	SLC	synchronized	427.703180	58.0	1.714876	
2024-02-16	GRDH	fscanner	84.740877	28.0	0.901443	
2024-02-16	GRDH	synchronized	103.007092	63.0	1.287537	
2024-02-16	GRDM	fscanner	4.542110	42.0	0.761929	
2024-02-16	GRDM	synchronized	5.100246	13.0	1.115093	
2024-02-16	OCN	synchronized	1.006113	55.0	1.363131	
2024-02-16	RAW	synchronized	107.897603	76.0	1.050239	
2024-02-16	SLC	synchronized	498.288803	67.0	1.658811	
2024-02-17	GRDH	fscanner	43.861951	18.0	0.602626	
2024-02-17	GRDH	synchronized	68.689489	41.0	1.300656	
2024-02-17	GRDM	fscanner	6.610607	34.0	0.603998	
2024-02-17	GRDM	synchronized	8.626160	22.0	0.733114	
2024-02-17	OCN	synchronized	1.132779	51.0	1.345636	
2024-02-17	RAW	synchronized	84.379463	63.0	0.987504	
2024-02-17	SLC	synchronized	330.725187	43.0	1.609846	
2024-02-18	GRDH	fscanner	69.716483	25.0	0.672243	
2024-02-18	GRDH	synchronized	85.160362	51.0	1.295368	
2024-02-18	GRDM	fscanner	5.966969	40.0	0.731472	
2024-02-18	GRDM	synchronized	4.954186	13.0	1.060646	
2024-02-18	OCN	synchronized	0.867961	44.0	1.340087	
2024-02-18	RAW	synchronized	91.364415	64.0	1.046425	
2024-02-18	SLC	synchronized	407.292789	54.0	1.694660	
2024-02-19	GRDH	fscanner	83.458121	30.0	0.937663	
2024-02-19	GRDH	synchronized	92.733312	56.0	1.362120	
2024-02-19	GRDM	fscanner	5.405447	35.0	0.794413	
2024-02-19	GRDM	synchronized	4.447575	13.0	0.750664	
2024-02-19	OCN	synchronized	1.014856	59.0	1.426214	
2024-02-19	RAW	synchronized	95.247939	69.0	1.117805	
2024-02-19	SLC	synchronized	439.272790	58.0	1.682283	
2024-02-20	GRDH	fscanner	62.870987	23.0	0.684708	
2024-02-20	GRDH	synchronized	85.506929	51.0	1.310168	
2024-02-20	GRDM	fscanner	5.576171	40.0	0.590788	
2024-02-20	GRDM	synchronized	6.533093	19.0	1.001065	
2024-02-20	OCN	synchronized	1.015631	50.0	1.238692	
2024-02-20	RAW	synchronized	95.344838	70.0	1.015699	
2024-02-20	SLC	synchronized	408.589268	54.0	1.630173	
2024-02-21	GRDH	fscanner	66.531302	22.0	0.700372	
2024-02-21	GRDH	synchronized	20.215570	12.0	1.339866	
2024-02-21	GRDM	synchronized	0.816061	2.0	1.128084	
2024-02-21	OCN	synchronized	0.141833	7.0	1.427084	
2024-02-21	RAW	synchronized	40.110211	27.0	1.087096	
2024-02-21	SLC	synchronized	93.778593	12.0	1.770463	
2024-02-22	GRDH	fscanner	45.671722	16.0	0.595124	
2024-02-22	GRDH	synchronized	17.060487	10.0	28.062527	
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2024-02-22 GRDM focamer 6.372613 35.0 0.60650 2024-02-22 ONN synchronized 3.059214 8.0 38.731145 2024-02-23 GRNM synchronized 9.663877 9.0 32.210668 2024-02-23 GRDH focamer 69.361634 22.0 0.620672 2024-02-23 GRDH focamer 69.361634 22.0 0.620672 2024-02-23 GRDH focamer 3.687596 31.0 0.820095 2024-02-23 GRDH synchronized 0.5568844 33.0 39.387214 2024-02-23 RW synchronized 0.568844 33.0 39.387214 2024-02-24 GRDH focamer 5.568844 33.0 39.387214 2024-02-24 GRDH focamer 40.381971 24.0 0.473754 2024-02-24 GRDH focamer 40.381971 24.0 0.724106 2024-02-25 GRDH focamer 40.93665 29.0 0.652563						(continu	ed from previous page)
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2024-02-22	2024-02-22	GRDM	synchronized	3.059214	8.0	38.731145	
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2024-02-03	MSIL1C	synchronized	110.906252	242.0	2.712056	
2024-02-04	MSIL1C	synchronized	146.341298	327.0	4.106852	
2024-02-05	MSIL1C	synchronized	118.414061	265.0	7.809717	
2024-02-07	MSIL1C	synchronized	117.862792	264.0	30.767050	
2024-02-08	MSIL1C	synchronized	343.763925	728.0	9.332121	
2024-02-09	MSIL1C	synchronized	173.629334	366.0	3.575614	
2024-02-10	MSIL1C	synchronized	182.499279	397.0	2.619984	
2024-02-11	MSIL1C	synchronized	183.921559	411.0	2.595879	
2024-02-12	MSIL1C	synchronized	186.986464	414.0	3.256067	
2024-02-13	MSIL1C	synchronized	193.840661	430.0	3.845112	
2024-02-14	MSIL1C	synchronized	206.718546	454.0	2.678913	
2024-02-15	MSIL1C	synchronized	209.921589	464.0	4.400218	
2024-02-16	MSIL1C	synchronized	182.605898	411.0	2.993046	
2024-02-17	MSIL1C	synchronized	221.609680	503.0	2.834109	
2024-02-20	MSIL1C	synchronized	134.722048	292.0	4.903643	
2024-02-22	MSIL1C	synchronized	128.966144	301.0	37.151518	
2024-02-23	MSIL1C	synchronized	204.019838	498.0	28.747916	
2024-02-24	MSIL1C	synchronized	309.028233	722.0	20.589572	
2024-02-25	MSIL1C	synchronized	220.377621	521.0	6.075357	
2024-02-26	MSIL1C	synchronized	289.942439	660.0	44.294968	
2024-02-27	MSIL1C	synchronized	276.132066	621.0	43.673452	
2024-02-28	MSIL1C	synchronized	248.694337	576.0	45.423308	
2024-02-29	MSIL1C	synchronized	324.410330	730.0	44.540245	
2024-02-01	MSIL2A	synchronized	250.498257	449.0	6.979294	
2024-02-02	MSIL2A	synchronized	88.480951	173.0	4.138810	
2024-02-03	MSIL2A	synchronized	237.287490	398.0	7.490376	
2024-02-04	MSIL2A	synchronized	118.315488	237.0	4.242605	
2024-02-05	MSIL2A	synchronized	130.433910	235.0	6.047221	
2024-02-07	MSIL2A	synchronized	223.537255	381.0	33.159269	
2024-02-07	Unknown	deleted	0.000000	4.0	0.000000	
2024-02-08	MSIL2A	synchronized	443.185611	728.0	7.653697	
2024-02-09	MSIL2A	synchronized	221.238548	366.0	2.856008	
2024-02-10	MSIL2A	synchronized	232.987326	397.0	2.962666	
2024-02-11	MSIL2A	synchronized	237.301178	411.0	2.618061	
2024-02-12	MSIL2A	synchronized	241.013584	411.0	3.384226	
2024-02-13	MSIL2A	synchronized	255.261906	441.0	3.739654	
2024-02-14	MSIL2A	synchronized	261.666128	454.0	2.722198	
2024-02-15	MSIL2A	synchronized	260.390000	459.0	4.431781	
2024-02-16	MSIL2A	synchronized	233.752622	417.0	3.186472	
2024-02-17	MSIL2A	synchronized	279.373702	502.0	2.989599	
2024-02-18	MSIL2A	synchronized	306.639682	511.0	2.814510	
2024-02-19	MSIL2A	synchronized	289.881023	516.0	4.024277	
2024-02-20	MSIL2A	synchronized	301.582162	549.0	3.200636	
2024-02-22	MSIL2A	synchronized	39.206626	79.0	37.439398	
2024-02-23	MSIL2A	synchronized	386.967157	720.0	38.598897	
2024-02-24	MSIL2A	synchronized	375.054424	710.0	24.447978	
2024-02-25	MSIL2A	synchronized	334.638034	645.0	12.689211	
2021-02-26	MSIL2A	synchronized	384.324093	708.0	29.787089	
2024-02-27	MSIL2A	synchronized	274.211265	477.0	4.117689	
2024-02-28	MSIL2A	synchronized	482.421522	888.0	12.831296	
2024-02-29	MSIL2A	synchronized	445.874041	830.0	5.720978	
2024-02-01	OLCI_L1	synchronized	23.101422	40.0	6.253608	
2024-02-01	OLCI_L2	synchronized	3.250556	38.0	4.327480	
2024-02-01	SLSTR_L1	synchronized	64.529998	169.0	17.545746	
2024-02-01	SLSTR_L2	synchronized	15.282420	255.0	22.779318	
2024-02-01	SRAL_L1	synchronized	142.682497	90.0	38.641618	
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2024-02-01	SRAL_L2	synchronized	5.355249	208.0	40.380417	
2024-02-01	SYN_L2	synchronized	5.967242	57.0	27.762653	
2024-02-02	OLCI_L1	synchronized	23.837770	40.0	7.855564	
2024-02-02	OLCI_L2	synchronized	4.240172	44.0	13.164290	
2024-02-02	SLSTR_L1	synchronized	69.022854	181.0	6.069052	
2024-02-02	SLSTR_L2	synchronized	16.112286	268.0	22.532472	
2024-02-02	SRAL_L1	synchronized	131.533778	80.0	39.303495	
2024-02-02	SRAL_L2	synchronized	5.179177	204.0	39.810280	
2024-02-02	SYN_L2	synchronized	7.023406	62.0	31.567744	
2024-02-03	OLCI L1	synchronized	23.636390	40.0	8.680620	
2024-02-03	OLCI_L2	synchronized	3.883509	42.0	8.720918	
2024-02-03	SLSTR_L1	synchronized	68.004536	178.0	10.370615	
2024-02-03	SLSTR_L2	synchronized	16.297548	271.0	20.352107	
2024-02-03	SRAL_L1	synchronized	146.571219	90.0	38.873333	
2024-02-03	SRAL_L1	synchronized	5.178386	195.0	40.386661	
2024-02-03	SYN_L2	synchronized	7.789624	70.0	29.238391	
2024-02-04	OLCI_L1	synchronized	26.666723	44.0	8.992901	
2024-02-04	OLCI_L2	synchronized	3.687984	40.0	3.167265	
2024-02-04	SLSTR_L1	synchronized	65.990689	172.0	9.622310	
2024-02-04	SLSTR_L2	synchronized	15.523259	258.0	19.622038	
2024-02-04	SRAL_L1	synchronized	134.125643	83.0	38.726413	
2024-02-04	SRAL_L2	synchronized	5.486339	211.0	40.018905	
2024-02-04	SYN_L2	synchronized	6.884796	63.0	26.779395	
2024-02-05	OLCI_L1	synchronized	24.348455	43.0	11.738709	
2024-02-05	OLCI_L2	synchronized	4.340983	47.0	12.394157	
2024-02-05	SLSTR_L1	synchronized	60.705566	158.0	4.711248	
2024-02-05	SLSTR_L2	synchronized	14.873465	248.0	21.927235	
2024-02-05	SRAL_L1	synchronized	146.769419	90.0	38.670568	
2024-02-05	SRAL_L2	synchronized	5.154168	199.0	40.020962	
2024-02-05	SYN_L2	synchronized	6.567556	61.0	28.024667	
2024-02-07	OLCI_L1	synchronized	36.490308	59.0	31.731101	
2024-02-07	OLCI_L2	synchronized	5.898821	61.0	31.727997	
2024-02-07	SLSTR_L1	synchronized	76.258648	198.0	32.534275	
2024-02-07	SLSTR_L2	synchronized	17.530187	291.0	44.462306	
2024-02-07	SRAL_L1	synchronized	156.847022	95.0	55.927310	
2024-02-07	SRAL_L2	synchronized	5.964349	227.0	56.768136	
2024-02-07	SYN_L2	synchronized	7.378225	64.0	53.666280	
2024-02-07	Unknown	deleted	0.000000	10.0	0.00000	
2024-02-08	OLCI_L1	synchronized	45.038736	70.0	13.411840	
2024-02-08	OLCI_L2	synchronized	6.304920	62.0	13.726313	
2024-02-08	SLSTR_L1	synchronized	103.543791	268.0	14.817152	
2024-02-08	SLSTR_L2	synchronized	23.970491	399.0	25.433495	
2024-02-08	SRAL_L1	synchronized	212.423308	136.0	40.884658	
2024-02-08	SRAL_L2	synchronized	8.118559	322.0	42.129923	
2024-02-08	SYN_L2	synchronized	11.919440	105.0	26.180714	
2024-02-09	OLCI_L1	synchronized	27.638683	43.0	10.108547	
2024-02-09	OLCI_L2	synchronized	4.918086	49.0	12.406373	
2024-02-09	SLSTR_L1	synchronized	61.181799	159.0	17.103151	
2024-02-09	SLSTR_L1	synchronized	15.324970	255.0	22.670194	
2024-02-09	SRAL_L1	synchronized	143.392300	88.0	38.869559	
		_			39.907613	
2024-02-09	SRAL_L2	synchronized	5.191809	197.0		
2024-02-09	SYN_L2	synchronized	7.718572	63.0	27.886648	
2024-02-10	OLCI_L1	synchronized	30.819977	46.0	3.115689	
2024-02-10	OLCI_L2	synchronized	4.486486	44.0	3.140105	
2024-02-10	SLSTR_L1 SLSTR_L2	synchronized synchronized	69.057454 16.805139	180.0 279.0	9.982973 21.540025	
2024-02-10						

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2024-02-10	SRAL_L1	synchronized	131.842542	82.0	38.710712	
2024-02-10	SRAL_L2	synchronized	5.251218	203.0	39.815395	
2024-02-10	SYN_L2	synchronized	8.911081	66.0	28.916280	
2024-02-11	OLCI_L1	synchronized	31.363910	47.0	11.430081	
2024-02-11	OLCI_L2	synchronized	4.961515	49.0	11.779664	
2024-02-11	SLSTR_L1	synchronized	67.086593	174.0	3.589242	
2024-02-11	SLSTR_L2	synchronized	15.612808	260.0	19.101655	
2024-02-11	SRAL_L1	synchronized	114.163983	71.0	39.848227	
2024-02-11	SRAL_L2	synchronized	4.350855	174.0	41.560971	
2024-02-11	SYN_L2	synchronized	8.106024	65.0	27.379787	
2024-02-12	OLCI_L1	synchronized	32.855954	48.0	6.519335	
2024-02-12	OLCI_L2	synchronized	4.760140	45.0	3.272284	
2024-02-12	SLSTR_L1	synchronized	63.320729	164.0	6.565433	
2024-02-12	SLSTR_L2	synchronized	15.048178	251.0	20.696294	
2024-02-12	SRAL_L1	synchronized	158.725961	92.0	40.297452	
2024-02-12	SRAL_L2	synchronized	6.176456	229.0	48.371647	
2024-02-12	SYN_L2	synchronized	10.138030	75.0	29.479227	
2024-02-13	OLCI_L1	synchronized	33.058630	48.0	8.028658	
2024-02-13	OLCI_L2	synchronized	5.335299	50.0	10.792070	
2024-02-13	SLSTR_L1	synchronized	64.234399	166.0	11.216211	
2024-02-13	SLSTR_L2	synchronized	15.049903	250.0	23.798784	
2024-02-13	SRAL_L1	synchronized	144.286331	89.0	39.804175	
2024-02-13	SRAL_L2	synchronized	5.317340	204.0	40.768138	
2024-02-13	SYN_L2	synchronized	9.729454	74.0	27.744180	
2024-02-14	OLCI L1	synchronized	35.389208	50.0	8.499927	
2024-02-14	OLCI_L2	synchronized	5.362070	49.0	6.149032	
2024-02-14	SLSTR_L1	synchronized	69.391148	180.0	6.139217	
2024-02-14	SLSTR_L2	synchronized	15.829876	263.0	20.801404	
2024-02-14	SRAL_L1	synchronized	137.147301	85.0	38.590285	
2024-02-14	SRAL_L2	synchronized	5.247047	204.0	39.951113	
2024-02-14	SYN_L2	synchronized	10.065743	68.0	28.431382	
2024-02-15	OLCI_L1	synchronized	37.286724	52.0	9.655249	
2024-02-15	OLCI_L2	synchronized	5.467468	50.0	8.480977	
2024-02-15	SLSTR_L1	synchronized	68.534329	177.0	6.991867	
2024-02-15	SLSTR_L2	synchronized	16.430307	273.0	19.638787	
2024-02-15	SRAL_L1	synchronized	135.562930	81.0	39.125586	
2024-02-15	SRAL_L2	synchronized	5.299140	203.0	40.379550	
2024-02-15	SYN_L2	synchronized	10.549745	72.0	27.107274	
2024-02-16	OLCI_L1	synchronized	36.026825	50.0	2.959258	
2024-02-16	OLCI_L2	synchronized	5.323627	49.0	2.825060	
2024-02-16	SLSTR_L1	synchronized	63.621989	164.0	3.117802	
2024-02-16	SLSTR_L2	synchronized	14.813779	246.0	20.816818	
2024-02-16	SRAL_L1	synchronized	135.155974	85.0	38.612706	
2024-02-16	SRAL_L2	synchronized	5.471599	204.0	40.539004	
2024-02-16	SYN_L2	synchronized	10.220438	74.0	26.837657	
2024-02-17	OLCI_L1	synchronized	38.742281	53.0	10.798772	
2024-02-17	OLCI_L2	synchronized	6.323663	56.0	11.961877	
2024-02-17	SLSTR_L1	synchronized	65.734294	169.0	17.327630	
2024-02-17	SLSTR_L2	synchronized	15.725783	261.0	22.661301	
2024-02-17	SRAL_L1	synchronized	138.791922	84.0	38.706703	
2024-02-17	SRAL_L2	synchronized	5.049478	198.0	39.458617	
2024-02-17	SYN_L2	synchronized	9.682401	72.0	27.400811	
2024-02-18	OLCI_L1	synchronized	36.282802	49.0	3.436899	
2024-02-18	OLCI_L2	synchronized	5.593731	50.0	7.610195	
2024-02-18	SLSTR_L1	synchronized	67.497568	174.0	16.499080	
2024-02-18	SLSTR_L2	synchronized	16.261970	269.0	20.796341	
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2024-02-18	SRAL_L1	synchronized	133.888252	82.0	38.818416	
2024-02-18	SRAL_L2	synchronized	5.036506	192.0	40.052549	
2024-02-18	SYN_L2	synchronized	10.662175	75.0	26.514312	
2024-02-19	OLCI_L1	synchronized	45.644115	60.0	10.558955	
2024-02-19	OLCI_L2	-	6.587503	57.0	11.052967	
2024-02-19	SLSTR_L1	_	72.805509	187.0	9.669933	
2024-02-19	SLSTR_L2	synchronized	16.465689	272.0	20.649396	
2024-02-19	SRAL_L1	-	131.631141	82.0	39.806577	
2024-02-19	SRAL_L2	synchronized	5.542581	217.0	40.091600	
2024-02-19	SYN_L2	synchronized	11.136781	77.0	26.402871	
2024-02-20	OLCI_L1	_	39.552422	52.0	6.576707	
2024-02-20	OLCI_L2	_	6.118042	54.0	7.902430	
2024-02-20	SLSTR_L1	_	66.218746	170.0	11.156050	
2024-02-20	SLSTR_L2	synchronized	15.362132	254.0	21.712314	
2024-02-20	SRAL_L1	synchronized	139.888600	88.0	38.978414	
2024-02-20	SRAL_L2	synchronized	5.481748	208.0	40.424919	
2024-02-20	SYN_L2	synchronized	9.621826	74.0	27.807967	
2024 02 20	OLCI_L2	synchronized	0.616743	6.0	13.129681	
2024-02-21	SLSTR_L1	-	19.826396	52.0	25.272089	
2024-02-21		synchronized		85.0		
	SLSTR_L2	synchronized	5.171333 85.874963		26.122102 40.704098	
2024-02-21	SRAL_L1	-		43.0	47.188985	
2024-02-21	SRAL_L2		3.184818	101.0		
2024-02-21	SYN_L2	_	3.948626	26.0	41.833552	
2024-02-22	SRAL_L1	_	8.084761	6.0	585.739876	
2024-02-22	SRAL_L2	_	0.349812	15.0	52.109877	
2024-02-28	OLCI_L1		317.429224	451.0	78.659390	
2024-02-28	OLCI_L2	synchronized	50.044451	479.0	77.805862	
2024-02-28	SLSTR_L1	_	457.438540	1170.0	98.881586	
2024-02-28	SLSTR_L2	synchronized	116.798250	1932.0	102.578455	
2024-02-28	SRAL_L1	_	946.604617	583.0	143.049636	
2024-02-28	SRAL_L2	synchronized	37.089857	1452.0	141.066143	
2024-02-28	SYN_L2	synchronized	82.186827	628.0	100.562646	
2024-02-28	Unknown	deleted	0.000000	21.0	0.000000	
2024-02-29	OLCI_L1		51.069859	80.0	9.177203	
2024-02-29	OLCI_L2	_	6.850816	75.0	5.676148	
2024-02-29	SLSTR_L1	_	68.606707	175.0	6.702204	
2024-02-29	SLSTR_L2		16.286412	269.0	21.598211	
2024-02-29	SRAL_L1	synchronized	141.309850	85.0	38.802715	
2024-02-29	SRAL_L2	synchronized	5.102973	202.0	39.704026	
2024-02-29		synchronized				
2024-02-29	Unknown	deleted	0.000000	1.0	0.00000	
2024-02-01	NRTI_L2	synchronized	2.949628	144.0	1.870118	
2024-02-01	OFFL_L1B	synchronized	175.349166	64.0	4.047341	
2024-02-01	OFFL_L2	synchronized	49.421732	141.0	73.424140	
2024-02-02	NRTI_L2	synchronized	3.641830	171.0	1.886780	
2024-02-02	OFFL_L1B	synchronized	197.294995	72.0	4.020266	
2024-02-02	OFFL_L2	synchronized	45.743262	129.0	65.278399	
2024-02-03	NRTI_L2	synchronized	4.313316	189.0	1.853503	
2024-02-03	OFFL_L1B	synchronized	197.318419	72.0	3.782828	
2024-02-03	OFFL_L2	synchronized	40.605424	113.0	39.847557	
2024-02-04	NRTI_L2	synchronized	3.627373	153.0	1.870055	
2024-02-04	OFFL_L1B	synchronized	153.406803	56.0	3.823864	
2024-02-04	OFFL_L2	synchronized	42.051567	119.0	39.396629	
2024-02-05	NRTI_L2	synchronized	3.166693	144.0	1.886866	
2024-02-05	OFFL_L1B	synchronized	172.894200	64.0	3.856756	
2024-02-05	OFFL_L2	synchronized	56.832644	147.0	51.329543	
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2024-02-07	NRTI_L2	synchronized	7.642161	314.0	11.953652	
2024-02-07	OFFL_L1B	synchronized	324.811940	118.0	11.737247	
2024-02-07	OFFL_L2	synchronized	65.896936	179.0	55.594921	
2024-02-08	NRTI_L2	synchronized	3.902059	179.0	1.853477	
2024-02-08	OFFL_L1B	synchronized	216.778202	80.0	4.012970	
2024-02-08	OFFL_L2	synchronized	38.638758	107.0	39.418641	
2024-02-09	NRTI_L2	synchronized	2.898279	145.0	1.936855	
2024-02-09	OFFL_L1B	synchronized	216.789337	80.0	4.094060	
2024-02-09	OFFL_L2	synchronized	45.768072	126.0	39.250758	
2024-02-10	NRTI_L2	synchronized	3.859778	179.0	1.920059	
2024-02-10	OFFL_L1B	synchronized	214.276162	80.0	4.193745	
2024-02-10	OFFL_L2	synchronized	47.562114	129.0	39.516985	
2024-02-11	NRTI_L2	synchronized	4.391872	189.0	1.853480	
2024-02-11	OFFL_L1B	synchronized	216.770171	80.0	3.934424	
2024-02-11	OFFL_L2	synchronized	47.341493	131.0	39.382458	
2024-02-12	NRTI_L2	synchronized	3.913189	173.0	1.870161	
2024-02-12	OFFL_L1B	synchronized	227.863743	84.0	3.899827	
2024-02-12	OFFL_L2	synchronized	45.465142	128.0	39.297576	
2024-02-13	NRTI_L2	synchronized	3.401685	171.0	1.870171	
2024-02-13	OFFL_L1B	synchronized	238.743789	88.0	3.949554	
2024-02-13	OFFL_L2	synchronized	47.295583	132.0	39.534953	
2024 02 13	NRTI_L2	synchronized	4.076782	180.0	1.886920	
2024 02 14	OFFL_L1B	synchronized	219.294183	80.0	3.966261	
2024 02 14	OFFL_L2	synchronized	47.852635	135.0	39.445753	
2024 02 14	NRTI_L2	synchronized	4.884349	216.0	1.853423	
2024 02 15	OFFL_L1B	synchronized	241.203670	88.0	3.846787	
2024 02 15	OFFL_L2	synchronized	50.684798	142.0	39.570762	
2024 02 15	NRTI_L2	synchronized	5.033962	216.0	1.886777	
2024-02-16	OFFL_L1B	synchronized	241.224763	88.0	3.955182	
2024 02 10	OFFL_L2	synchronized	48.464858	131.0	39.494307	
2024-02-17	NRTI_L2	synchronized	3.940191	189.0	1.953459	
2024-02-17	OFFL_L1B	synchronized	241.225653	88.0	4.012578	
2024-02-17	OFFL_L2	synchronized	50.386242	140.0	39.418603	
2024-02-18	NRTI_L2	synchronized	4.218545	198.0	1.936859	
2024-02-18	OFFL_L1B	synchronized	241.250848	88.0	3.894265	
2024 02 18	OFFL_L2	synchronized	31.612543	77.0	45.084008	
2024 02 18	NRTI_L2	synchronized	5.402415	225.0	1.870093	
2024 02 19	OFFL_L1B	synchronized	241.127604	88.0	3.981462	
2024 02 19	OFFL_L2	synchronized	34.316343	111.0	59.241628	
2024-02-20		synchronized			1.870055	
2024 02 20	OFFL_L1B	synchronized	247.930939	90.0	3.905543	
2024-02-20	OFFL_L2	synchronized	59.135103	149.0	60.041980	
2024 02 20	NRTI_L2	synchronized	4.504472	216.0	1.886727	
2024 02 21	OFFL_L1B	synchronized	272.903025	98.0	3.974992	
2024-02-21	OFFL_L1B	synchronized	70.498672	202.0	48.081410	
2024 02 21	NRTI_L2	synchronized	5.250899	234.0	2.795155	
2024 02 22		synchronized			4.107047	
2024-02-22	OFFL_L1B OFFL_L2	synchronized	303.031469 67.341625	110.0 184.0	45.121098	
2024-02-22	NRTI_L2	synchronized	4.973905	216.0	1.903529	
2024-02-23	OFFL_L1B	synchronized	263.244617	96.0	3.883701	
2024-02-23	OFFL_L1B	synchronized	62.301824	166.0	39.629309	
2024-02-23	NRTI_L2	synchronized	5.196509	234.0	1.886791	
2024-02-24	OFFL_L1B	synchronized	285.244414	104.0	3.787156	
2024-02-24	OFFL_L1B	synchronized	58.047912	160.0	39.623771	
2024-02-24	NRTI_L2	synchronized	4.440015	205.0	1.920141	
2024-02-25	OFFL_L1B	synchronized	285.213597	104.0	3.874193	
2024 02-23	OLLT_TIP	3 y 11 C 11 I O 11 I Z e d	200.21009/	104.0	J.0/4133	
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2024-02-25	OFFL_L2	synchronized	58.540634	166.0	39.222029	
2024-02-26	NRTI_L2	synchronized	5.363371	242.0	1.903490	
2024-02-26	OFFL_L1B	synchronized		112.0	3.886342	
2024-02-26	OFFL_L2	synchronized	59.459826	164.0	39.432936	
2024-02-27	NRTI_L2	synchronized	6.304853	259.0	1.853501	
2024-02-27	OFFL_L1B	synchronized	326.678006	120.0	3.707793	
2024-02-27	OFFL_L2	synchronized	65.645040	181.0	39.356368	
2024-02-28	NRTI_L2	synchronized	5.322787	236.0	1.878449	
2024-02-28	OFFL_L1B	synchronized	304.750602	112.0	4.022680	
2024-02-28	OFFL_L2	synchronized	67.064256	185.0	39.529183	
2024-02-29	NRTI_L2	synchronized	4.898085	225.0	1.920093	
2024-02-29	OFFL_L1B	synchronized	302.317269	112.0	3.957141	
2024-02-29	OFFL_L2	synchronized	65.716242	181.0	39.461408	
2024-02-01	s2_11c	NaN	32.781094	49.0	NaN	
2024-02-01	s2_11a	NaN	7.345757	8.0	NaN	
2024-02-01	s1_iw	NaN	66.810532	0.0	NaN	
2024-02-01	s1_ew	NaN	66.810532	0.0	NaN	
2024-02-02	s1_iw	NaN	67.198631	0.0	NaN	
2024-02-02	s1_ew	NaN	67.198631	0.0	NaN	
2024-02-02	s2_l1c	NaN	26.222675	51.0	NaN	
2024-02-02	s2_11e	NaN	1.658096	4.0	NaN	
2024-02-02	s2_12a s2_12a	NaN NaN	2.008072	3.0	NaN	
2024-02-03	s2_12a s1_iw	NaN	44.370842	25.0	NaN	
2024-02-03	s1_ew	NaN	9.235340	3.0	NaN	
2024-02-03	s2_11c	NaN	39.501122	63.0	NaN	
2024-02-03	sz_iic s1_ew	nan Nan	12.383503	5.0	NaN	
2024-02-04	s1_ew s2_l1c	nan Nan	39.676945	68.0	NaN	
2024-02-04	52_11C s1_iw	NaN	61.098511	39.0	NaN	
2024-02-04	s2_12a	NaN	5.441250	9.0	NaN	
2024-02-04	s2_12a s2_12a	nan Nan	68.308506	0.0	NaN	
2024-02-05	s2_12a s2_11c	NaN	32.125381	59.0	NaN	
2024-02-05	s1_ew	NaN	27.130074	13.0	NaN	
2024-02-05	s1_ew s1_iw	NaN	25.121475	17.0	NaN	
2024-02-05			28.384239	18.0		
2024-02-06	s1_iw	NaN		8.0	NaN	
2024-02-06	s1_ew	NaN NaN	18.456894		NaN	
	s2_l1c		33.535255	55.0	NaN	
2024-02-06	s2_12a	NaN	6.367363	8.0	NaN	
2024-02-07 2024-02-07	s1_iw	NaN	41.722599	18.0	NaN	
	s1_ew	NaN	14.510197	8.0	NaN	
2024-02-07 2024-02-07	s2_11c	NaN	42.771057 68.520256	70.0	NaN	
	s2_12a	NaN		0.0	NaN	
2024-02-08	s2_12a	NaN	1.730133	3.0	NaN	
2024-02-08	s2_l1c	NaN	49.108532	79.0	NaN	
2024-02-08	s1_iw	NaN	62.572289	41.0	NaN	
2024-02-08	s1_ew	NaN	10.804482	6.0	NaN	
2024-02-09	s1_iw	NaN	53.436119	32.0	NaN	
2024-02-09	s1_ew	NaN	12.984680	6.0	NaN	
2024-02-09	s2_l1c	NaN	43.578953	72.0	NaN	
2024-02-09	s2_12a	NaN	6.426373	9.0	NaN	
2024-02-10	s2_12a	NaN	68.754623	0.0	NaN	
2024-02-10	s2_l1c	NaN	41.524982	68.0	NaN	
2024-02-10	s1_ew	NaN	18.522923	9.0	NaN	
2024-02-10	s1_iw	NaN	27.102058	18.0	NaN	
2024-02-11	s1_iw	NaN	66.654903	37.0	NaN	
2024-02-11	s1_ew	NaN	14.460747	5.0	NaN	
2024-02-11	s2_l1c	NaN	52.303825	83.0	NaN	
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2024-02-11	s2_12a	NaN	5.284763	8.0	NaN	
2024-02-12	s2_11c	NaN	50.300491	94.0	NaN	
2024-02-12	s2_12a	NaN	1.169384	4.0	NaN	
2024-02-12	s1_iw	NaN	26.949501	17.0	NaN	
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2024-02-14	s2_12a	NaN	5.784916	8.0	NaN	
2024-02-14	s1_iw	NaN	21.488426	12.0	NaN	
2024-02-14	s1_ew	NaN	68.740757	0.0	NaN	
2024-02-14	s2_11c	NaN	58.335754	95.0	NaN	
2024-02-15	s2_11c	NaN	56.361828	98.0	NaN	
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2024-02-15	s1_ew	NaN	9.207188	3.0	NaN	
2024-02-16	s1_iw	NaN	75.716808	42.0	NaN	
2024-02-16	s1_ew	NaN	10.663651	4.0	NaN	
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2024-02-16	s2_12a	NaN	5.219608	8.0	NaN	
2024-02-17	s2_11c	NaN	67.861973	109.0	NaN	
2024-02-17	s2_12a	NaN	1.719360	4.0	NaN	
2024-02-17	s1_iw	NaN	24.857021	17.0	NaN	
2024-02-17	s1_ew	NaN	27.044529	13.0	NaN	
2024-02-18	s1_iw	NaN	51.796310	36.0	NaN	
2024-02-18	s1_ew	NaN	18.462456	8.0	NaN	
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2024-02-18	s2_12a	NaN	1.471802	3.0	NaN	
2024-02-19	s2_12a	NaN	5.716854	8.0	NaN	
2024-02-19	s1_iw	NaN	36.114380	17.0	NaN	
2024-02-19 2024-02-19	s1_ew	NaN	13.678101	7.0	NaN	
	s2_11c	NaN	1.031273	2.0	NaN	
2024-02-20 2024-02-20	s2_l1c	NaN	13.593445	25.0 0.0	NaN	
2024-02-20	s2_12a s1_iw	NaN NaN	68.739311 60.179218	41.0	NaN NaN	
2024 02 20	s1_ew	NaN	11.040222	6.0	NaN	
2024-02-20	s1_ew s1_iw	NaN	54.360420	14.0	NaN	
2024-02-21	s1_ew	NaN	8.500668	3.0	NaN	
2024-02-21	s2_11c	NaN	58.440250	103.0	NaN	
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2024-02-22	s1_iw	NaN	27.868443	18.0	NaN	
2024-02-22	s1_ew	NaN	21.786533	10.0	NaN	
2024-02-22	s2_11c	NaN	59.150822	108.0	NaN	
2024-02-22	s2_12a	NaN	1.454601	4.0	NaN	
2024-02-23	s2_12a	NaN	1.522831	3.0	NaN	
2024-02-23	s2_11c	NaN	57.329395	104.0	NaN	
2024-02-23	s1_ew	NaN	14.424179	5.0	NaN	
2024-02-23	s1_iw	NaN	67.400139	37.0	NaN	
2024-02-24	s1_iw	NaN	30.699596	17.0	NaN	
2024-02-24	s1_ew	NaN	14.258453	7.0	NaN	
2024-02-24	s2_11c	NaN	78.031384	123.0	NaN	
2024-02-24	s2_12a	NaN	2.350456	4.0	NaN	
2024-02-25	s2_12a	NaN	68.739693	0.0	NaN	
2024-02-25	s1_iw	NaN	55.069908	40.0	NaN	
2024-02-25	s1_ew	NaN	17.226875	8.0	NaN	

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2024-02-25	s2_11c	NaN	71.466400	119.0	NaN
2024-02-26	s2_12a	NaN	7.346489	8.0	NaN
2024-02-26	s2_11c	NaN	82.444427	128.0	NaN
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2024-02-26	s1_iw	NaN	43.855358	24.0	NaN
2024-02-27	s1_iw	NaN	58.082058	30.0	NaN
2024-02-27	s1_ew	NaN	9.052402	3.0	NaN
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2024-02-27	s2_12a	NaN	1.194908	4.0	NaN
2024-02-28	s2_11c	NaN	85.059830	144.0	NaN
2024-02-28	s2_12a	NaN	1.690479	3.0	NaN
2024-02-28	s1_iw	NaN	80.204121	43.0	NaN
2024-02-28	s1_ew	NaN	8.524288	4.0	NaN
2024-02-29	s1_iw	NaN	25.739460	17.0	NaN
2024-02-29	s1_ew	NaN	23.857513	12.0	NaN
2024-02-29	s2_11c	NaN	63.249275	111.0	NaN
2024-02-29	s2_12a	NaN	4.266727	8.0	NaN

CHAPTER

TEN

PREVIOUS REPORTS

Below is a list of previous reports. If viewing the HTML version of this report online, you can click the link to download a PDF version of a previous report

- NBS_monthly_report_2024_01.pdf
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