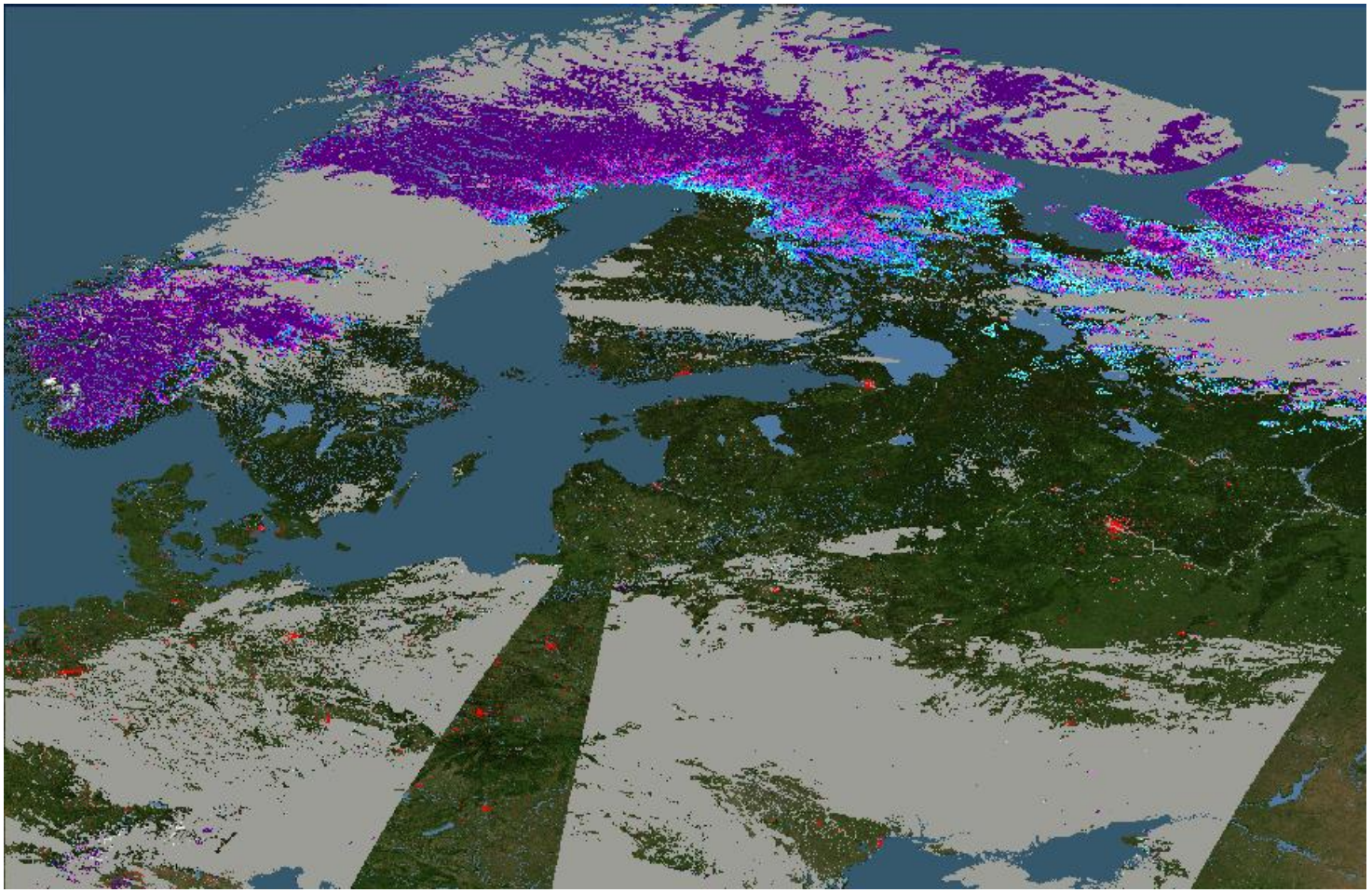
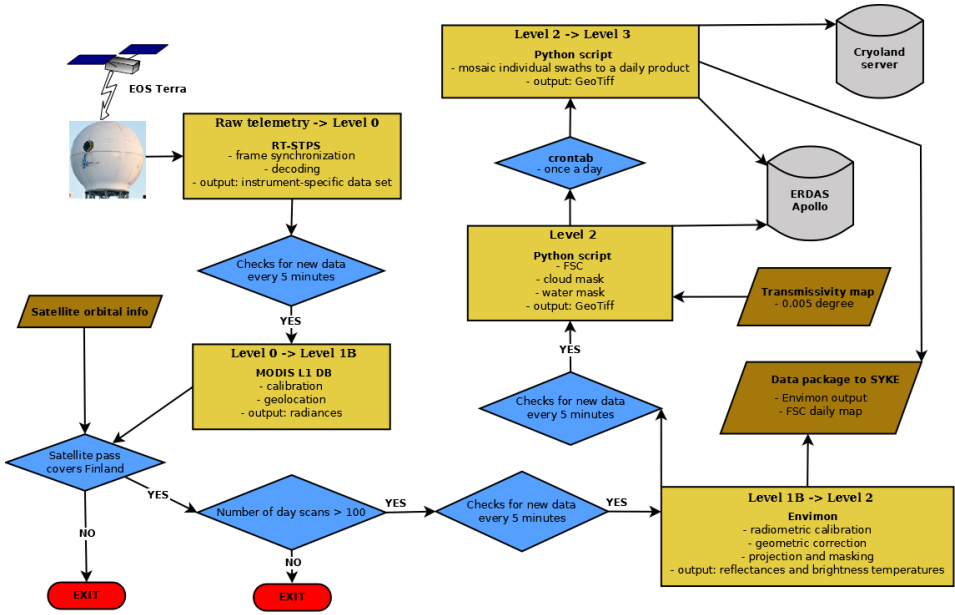
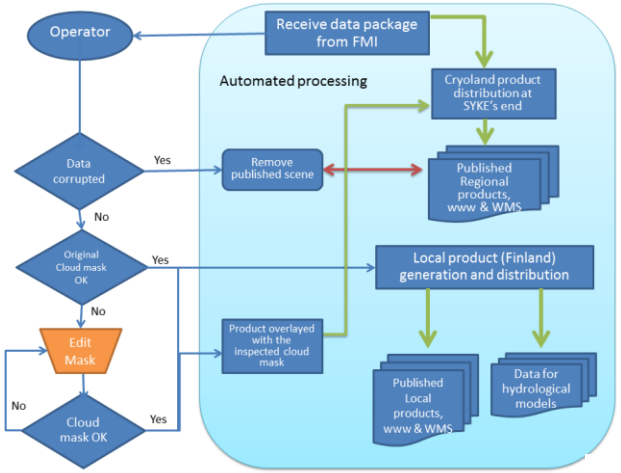
SYKE Cryoland regional product 20 April, 2014
via Cryoland portal



Regional FSC product for the Baltic Sea area

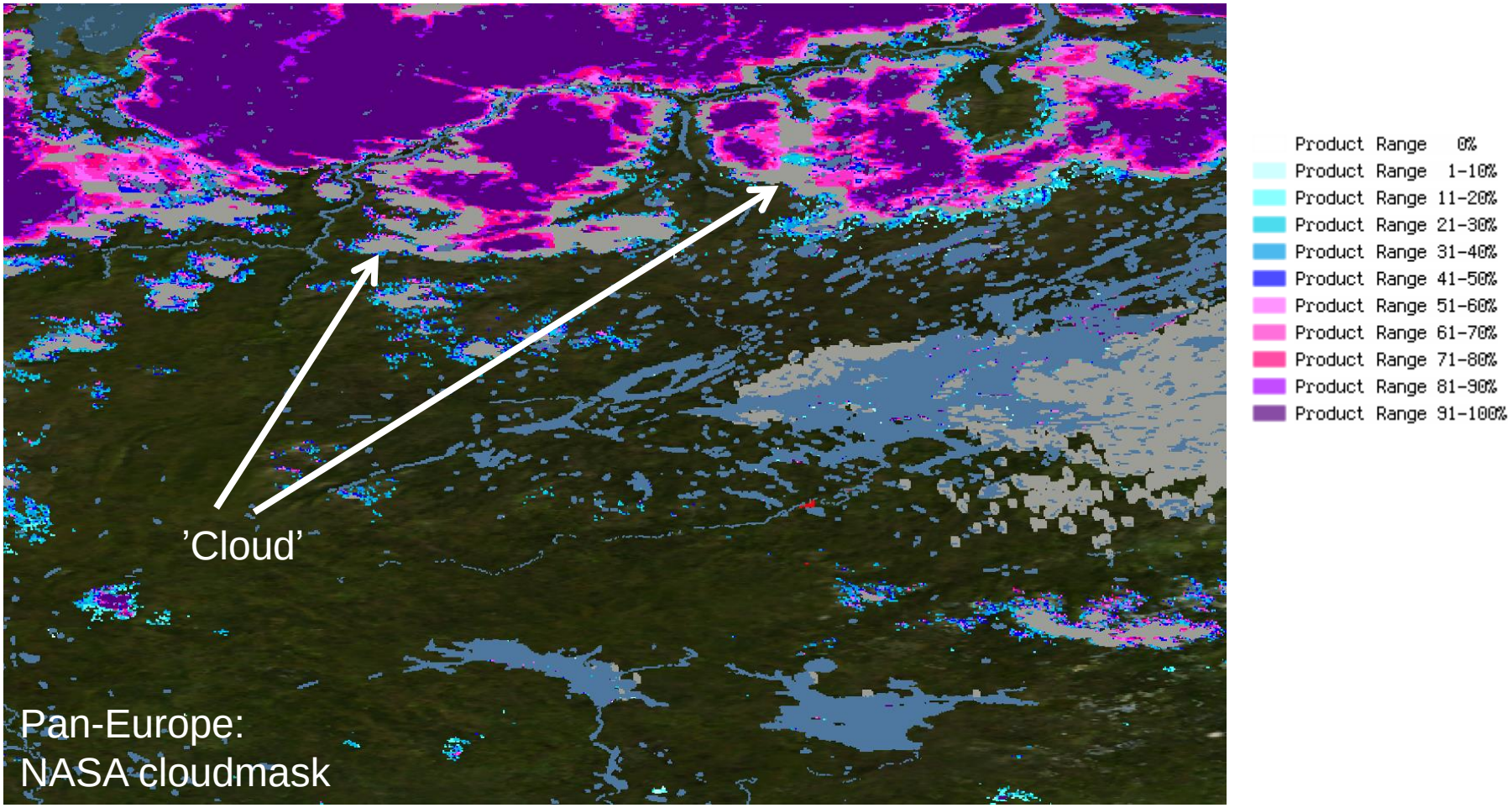
- Automated receiving, processing and delivery at Sodankylä, FMI&SYKE co-operation, published in Cryoland Server
- Daily service, automatic
- At SYKE, value-added (visual cloud-checkings, drainage basin statistics) products generated, published as SYKE-service
- *SCAmod*-method by SYKE applied to terra/MODIS, 0.005 deg (~500m) resolution, dedicated to forested areas
- New improved cloud screening method by SYKE
- Service sucessfully in use starting in 2013 (Service active February-May, i.e. melting period)





Importance of snow/cloud discrimination

- NASA MODIS cloud mask often confuses between clouds and fractional snow
- SYKE cloud mask does a better job in this respect
- A proper cloud masking method is crucial!



SYKE Cryoland regional product 20 April, 2014
Via SYKE web-pages

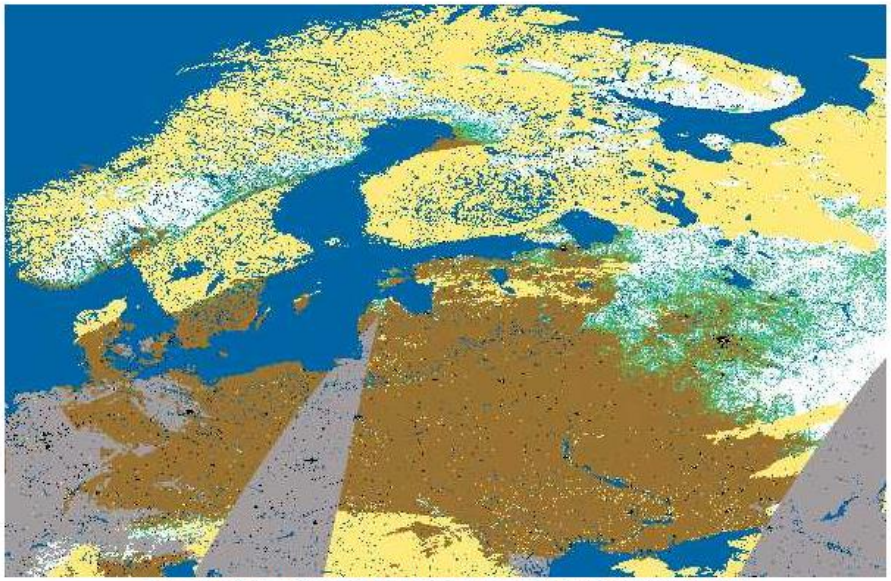
SYKE
Finnish Environment Institute

Products | Hot Spot areas | Time series | Metadata | More information | Archieves | 2014 | Suomeksi

Fractional snow cover (FSC) in the Baltic sea region 2014, satellite

Instrument: Terra MODIS

You can browse the maps by moving mouse pointer on top of the days in the calendar marked in blue. Click on the map to enlarge.



Lataa lumikartta GeoTiff-muodossa/ Load Snow Map GeoTiff (zip)
Metadata

Päivitetty: 06/22/2014 22:06:42

FEBRUARY

Mo	Tu	We	Th	Fr	Sa	Su
					01	02
03	04	05	06	07	08	09
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

MARCH

Mo	Tu	We	Th	Fr	Sa	Su
					01	02
03	04	05	06	07	08	09
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL

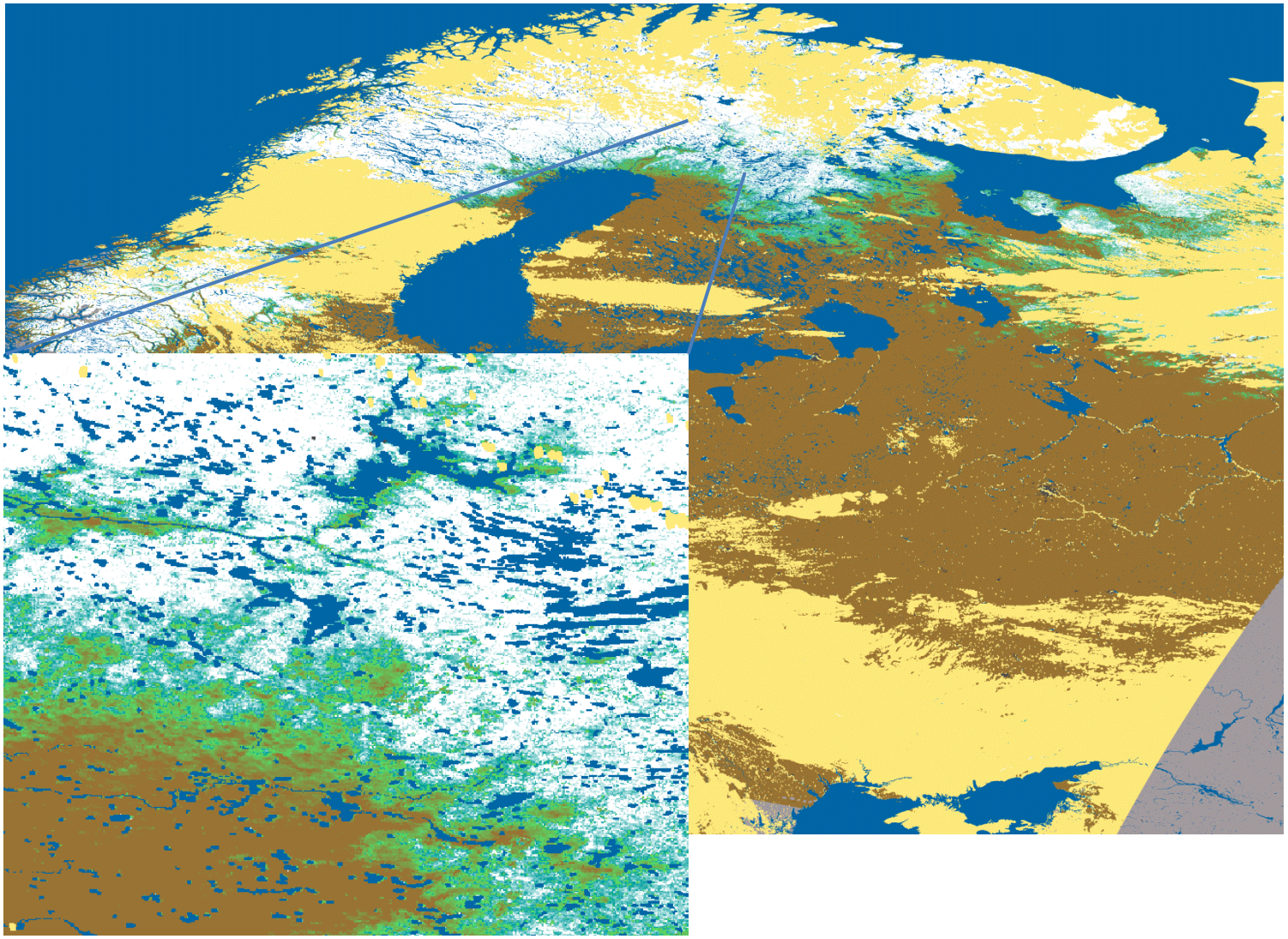
Mo	Tu	We	Th	Fr	Sa	Su
	01	02	03	04	05	06
07	08	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

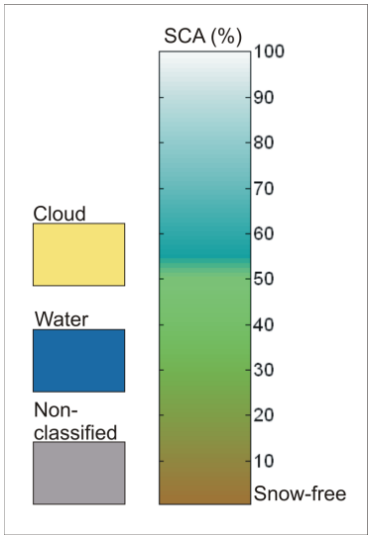
Mo	Tu	We	Th	Fr	Sa	Su
			01	02	03	04
05	06	07	08	09	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

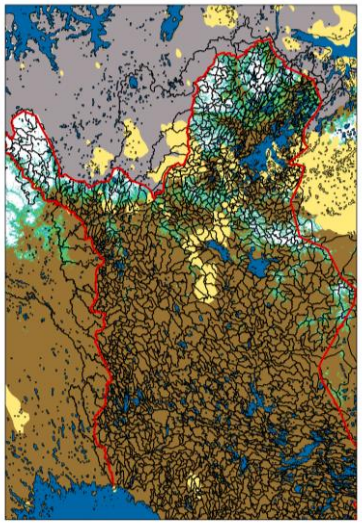
SYKE Cryoland regional product 20 April, 2014

Via SYKE web-pages



SYKE value added product: drainage basin statistics





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3	6.8051000e+01	6.3049011e+00	2.0560622e+00	1.0553740e+01
4	6.8013000e+01	3.6619949e+01	2.6437918e+01	4.6801979e+01
5	6.8059000e+01	3.4818176e+01	2.4933685e+01	4.4702667e+01
6	6.8016000e+01	6.7456375e+01	5.2082638e+01	8.2830109e+01
7	6.8057000e+01	5.0071823e+01	3.6483700e+01	6.3659946e+01
8	6.8061000e+01	5.5859222e+01	4.1505375e+01	7.0213074e+01
9	6.8058000e+01	7.1415543e+01	5.5666721e+01	8.7164368e+01
10	6.8014000e+01	6.2493729e+01	4.7579987e+01	7.7407471e+01
11	6.8066000e+01	8.2839157e+01	6.6042328e+01	9.9635986e+01
12	6.8021000e+01	7.7657715e+01	6.0787827e+01	9.4527603e+01
13	6.8052000e+01	4.8230057e+00	3.2923985e-01	9.3167715e+00
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18	6.8079000e+01	7.9472137e+01	6.1557854e+01	9.7386421e+01
19	6.8062000e+01	6.4958282e+01	5.1732792e+01	7.8183777e+01
20	6.8069000e+01	7.7457184e+01	6.0830353e+01	9.4084015e+01
21	6.8055000e+01	4.7617264e+01	3.5046112e+01	6.0188416e+01
22	6.8056000e+01	5.0818695e+01	3.7146122e+01	6.4491264e+01
23	6.8053000e+01	5.8993088e+01	4.4277359e+01	7.3708817e+01
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25	6.8067000e+01	8.2126007e+01	6.5587952e+01	9.8664063e+01
26	6.8068000e+01	9.2386429e+01	7.4030647e+01	1.0000000e+02
27	6.8078000e+01	9.7937500e+01	7.7353912e+01	1.0000000e+02
28	6.8073000e+01	6.1528305e+01	4.6599384e+01	7.6457222e+01
29	6.8025000e+01	9.0545303e+01	7.0974266e+01	1.0000000e+02

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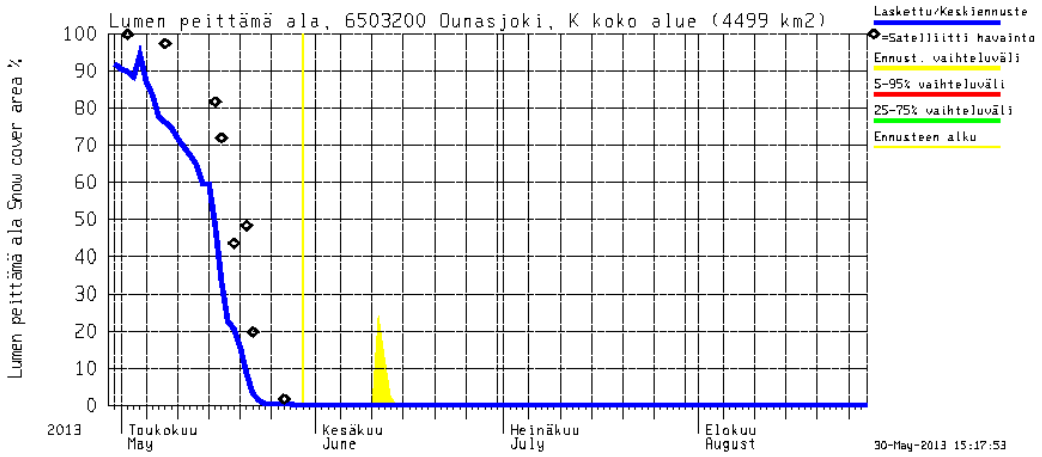

Plan for continuation

- SYKE in collaboration with FMI will continue the Baltic Sea regional service at least for next 4-5 years
- National satellite data processing Centre at Sodankylä will operate the production chains