

OSPAR EMO-RID riverine database appendix:

Country specific E-HYPE areas and riverine daily flow stations

by

Sonja van Leeuwen

NIOZ

The Netherlands

Contact: sonja.van.leeuwen@nioz.nl

CONTENTS

1.	Belgium	3
2.	Denmark.....	4
3.	Estonia	6
4.	Finland	7
5.	France	10
6.	Germany.....	12
7.	Great Britain.....	14
8.	Iceland	17
9.	Ireland	17
10.	Latvia.....	19
11.	Lithuania.....	20
12.	The Netherlands.....	21
13.	Norway	22
14.	Poland	24
15.	Portugal.....	26
16.	Russia.....	28
17.	Spain	30
18.	Sweden.....	33

Overview of the daily flow data held for each country lists start and end year for complete years only. Hydrological data such as daily flow values are usually released in hydrological years, which run from October through to September the next year. Any country wishing to change the stations used is expected to submit daily flow data for as long as possible, but spanning at least 2014-2020, to the author.

1. Belgium

Table 1.1: Belgian daily flow stations used. Temporal coverage only lists complete years.

River	Daily flow station	Station ID	Data start	Data end
Boudewijn canal	UWWTP18 Brugge	?	2000	2018
Gent-Oostende canal	Varsenare/Kl	04kgo03a-1066	1998	2019
Gent-Terneuzen canal	Evergem/Ringvaart	04rvg03a-1066	2002	2020
	Mendonk/Moervaart	04moe02a-1066	2008	2020
IJzer	Keiem	04ijz02a-1066	1999	2020
	Lo-Reninge	04lok02a-1066	2006	2020
	Slijpe/Kl Nieuwpoort-Plassendale	04kpn03a-1066	2012	2020
Leopold canal	Damme	04lek03a-1066	2006	2020
Schelde	Schelle calc/Zeeschelde	04zes29f-1066	1971	2019
Schipdonk canal	Zomergem/Afleidingskl Leie	04akl04a-1066	2003	2020

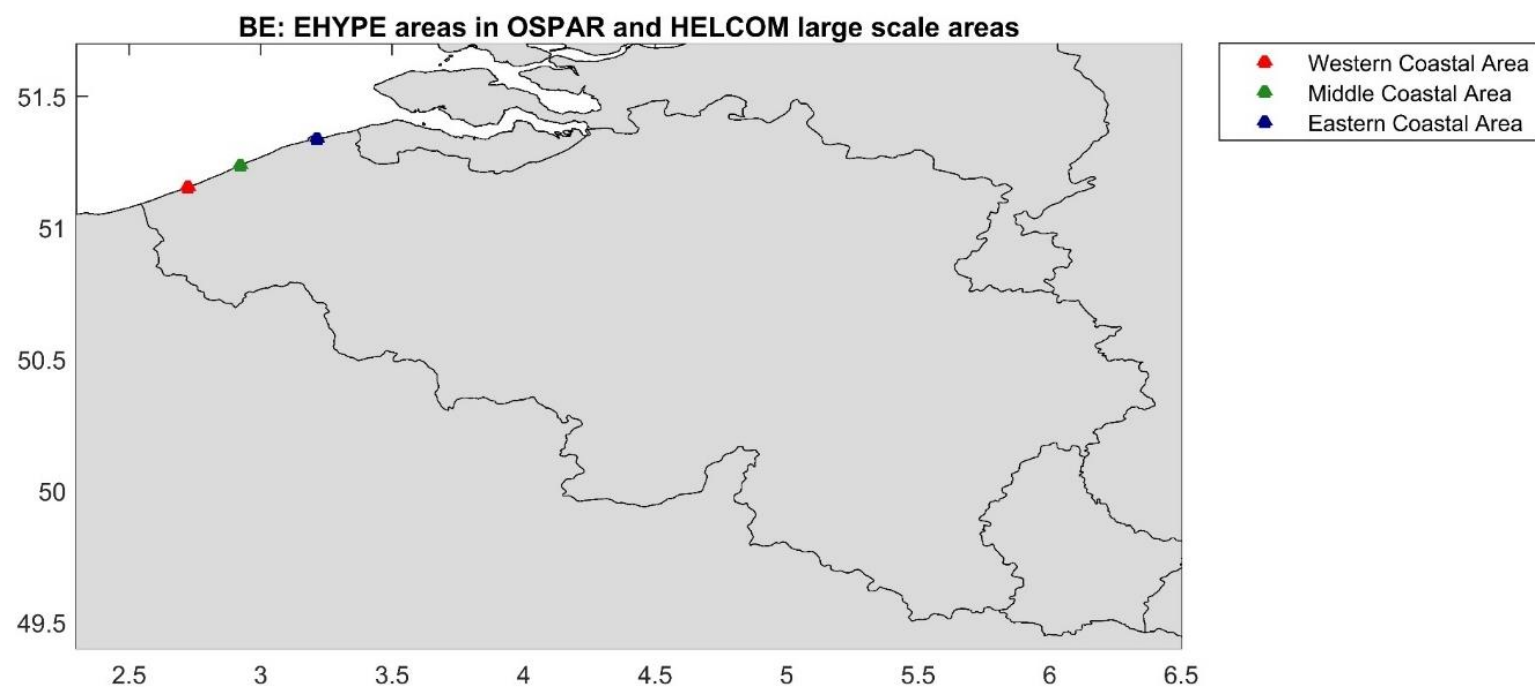


Figure 1.1: Allocation of Belgian E-HYPE areas.

2. Denmark

Denmark has provided daily values for direct discharges, unmonitored areas and rivers. Therefore the stations listed below are not used in the analysis.

Table 2.1: Daily flow stations used for Danish OSPAR rivers.

River	Daily flow station	Station ID	Data start	Data end
Brede å	BREDE Å, BREDEBRO	40000001	1922	2021
Brøns å	BRØNS Å, BRØNS V.FORSØGSDAMBRUG	39000001	1974	2021
Elling å	ELLING Å, ELLING KIRKE	20000005	1989	2021
Flynder å		22000336		
Ger å	GERÅ, MELHOLT KIRKE	80000001	1985	2021
Grøn å	GRØNÅ, RØRKÆR	42000016	1960	2021
Guden å	GUDENÅ, MOTORSVEJBRO A10	21000467	1974	2021

Haslevgårds å	HASLEVGAARDS Å, TRÆPÆLEBRO	15000032	1989	2021
Jordbro å	JORDBRO Å, JORDBRO MØLLE	19000012	1980	2021
Karup å	KARUP Å, NØRKÆR BRO	20000024	1987	2021
Kastbjerg å	KASTBJERG Å, NORUP	15000002	1976	2021
Kongeåen å	KONGE Å, V. VILSLEV SPANG	36000009	1990	2021
Lindborg å	LINDENBORG Å, VED MØLLEBRO	14000016	1983	2021
Liver å	LIVER Å, RØDE BRO	40000005	1989	2021
Omme å	OMME Å, SØNDERSKOV BRO	25000078	1983	2021
Ribe å	RIBE Å, V. STAVNAGER BRO	38000024	1922	2021
Ry å	RY Å, MANNA	60000001	1972	2021
Simested å	SIMESTED Å, SKIVE-HOBRO LANDEVEJ	17000007	1976	2021
Skals å	SKALS Å, LØVEL BRO	18000077	1974	2021
Skjern å	SKJERN Å, ALERGÅRD	25000018	1923	2022
Sneum å	SNEUM Å, V. NØRÅ BRO	35000010	1966	2021
Stor å	STORÅ, SKÆRUM BRO	22000062	1971	2021
Uggerby å	UGGERBY Å, NS RANSBÆK	30000002	1989	2021
Varde å	VARDE Å, V. VAGTBORG	31000027	1973	2021
Vid å	VIDÅ, EMMERSKE	42000021	1978	2021
Voer å	VOER Å, FÆBROEN	50000003	1989	2021

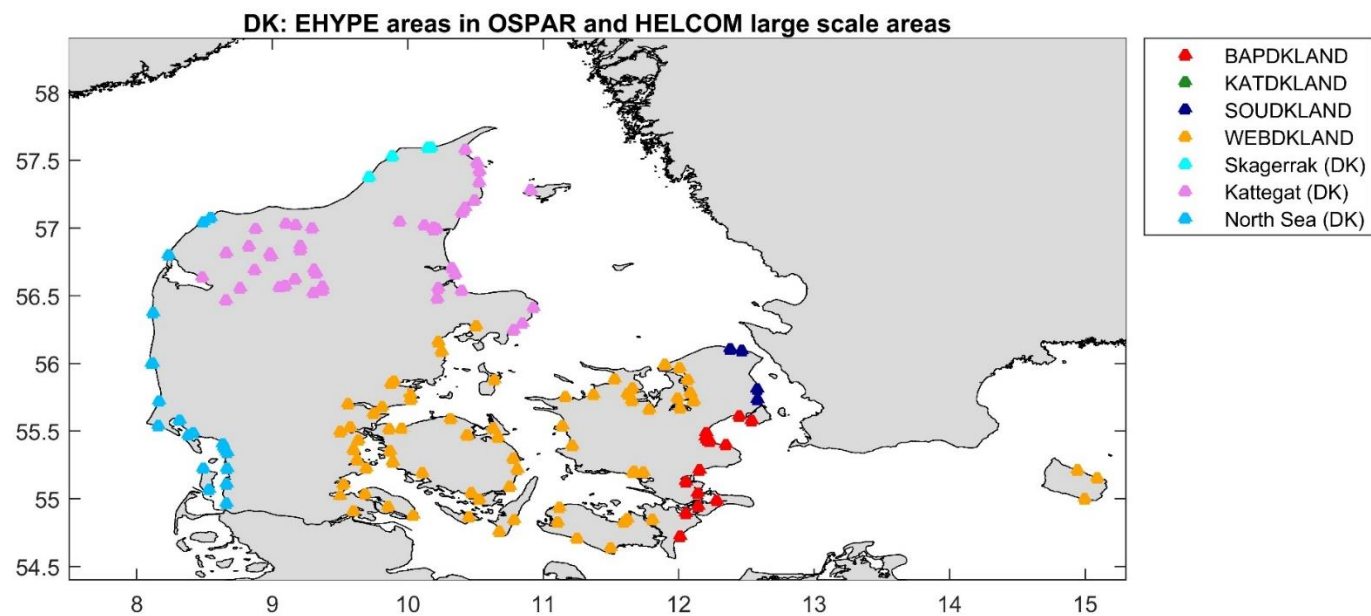


Figure 2.1: Allocation of Danish E-HYPE areas.

3. Estonia

Table 3.1: Daily flow stations used for Estonian HELCOM rivers.

River	Daily flow station	Station ID	Data start	Data end
JAGALA	KEHRA	6172011	1982	2023
KASARI	KASARI	6172023	1924	2023
KEILA	KEILA	6172013	1923	2023
KUNDA	SAMI	6172036	1942	2023
LOOBU	ARBAVERE	6172032	2007	2023
NARVA	NARVA LINN	6172350	1956	2022
PARNU	OORE	6172050	1921	2023
PIRITA	KLOOSTRIMETSA	6172012	1973	2023
PUDISOO	PUDISOO	6172014	1960	2023
PUHAJOGI	TOILA-ORU	6172017	2008	2023

PURTSE	LUGANUSE	6172016	1923	2023
SELJAJOGI	VARANGU	6172015	2011	2023
VAANA	HUURU	6172024	1968	2023
VALGEJOGI	VANAKULA	6172026	1945	2023
VIHTERPALU	VIHTERPALU	6172028	1929	2023

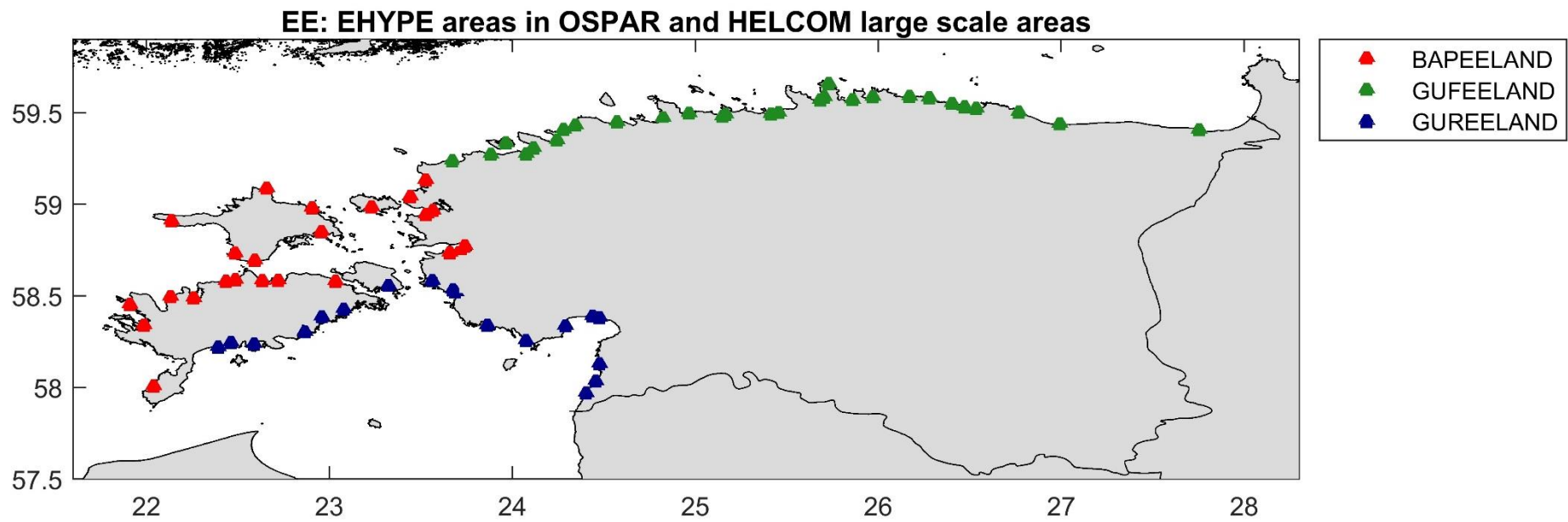


Figure 3.1: Allocation of Estonian E-HYPE areas.

4. Finland

All Finnish daily flow data was obtained from the Global Run-off Data Centre.

Table 4.1: Daily flow stations used for Finnish HELCOM rivers.

River	Daily flow station	Station ID	Data start	Data end
-------	--------------------	------------	------------	----------

AURAJOKI	JUVANKOSKI	6854630	1938	2024
EURAJOKI	PAPPILANKOSKI	6854150	1985	2023
IIJOKI	RAASAKKA (MERIKOSKI)	6854600	1911	2024
KALAJOKI	NISKAKOSKI	6854800	1911	2024
KARJAANJOKI	PELTOKOSKI	6854520	1938	2024
KEMIJOKI	ISOHAARA	6854700	1949	2024
KIIMINGINJOKI	HAUKIPUDAS	6854400	1911	2024
KISKONJOKI	KOSKI	6854722	1963	2024
KOKEMÄENJOKI	HARJAVALTA	6854101	1931	2024
KOSKENKYLÄNJOKI	PYHAJARVI, LUUSUA	6854350	1954	2024
KYMIJOKI	ANJALA	6854203	1938	2024
KYRÖNJOKI	SKATILA	6854900	1911	2024
LAPUANJOKI	KEPPO	6854200	1931	2024
LAPVÄÄRTINJOKI	PERUS	6854950	1980	2023
LESTIJOKI	SAARENPAÄ	6854301	1980	2024
MUSTIJOKI	VEKKOSKI	6854820	1966	2023
NÄRPIÖNJOKI	ALLMANNINGSFORSEN	6854180	1981	2023
OULUJOKI	MERIKOSKI	6854500	1950	2024
PAIMIONJOKI	JUVANKOSKI	6854650	1958	2024
PERHONJOKI	TUNKKARI	6854220	1980	2024
PORVOONJOKI	VAKKOLA	6854340	1963	2024
PYHÄJOKI	TOLPANKOSKI	6854320	1983	2024
SIIKAJOKI	LANKELA	6854720	1936	2023
SIMOJOKI	SIMO	6854620	1965	2024
USKELANJOKI	KAUKOLANKOSKI	6854730	1970	2024
VANTAANJOKI	OULUNKYLA	6854115	1937	2024
VIROJOKI	SALMEN, SILTA	6854360	1966	2024

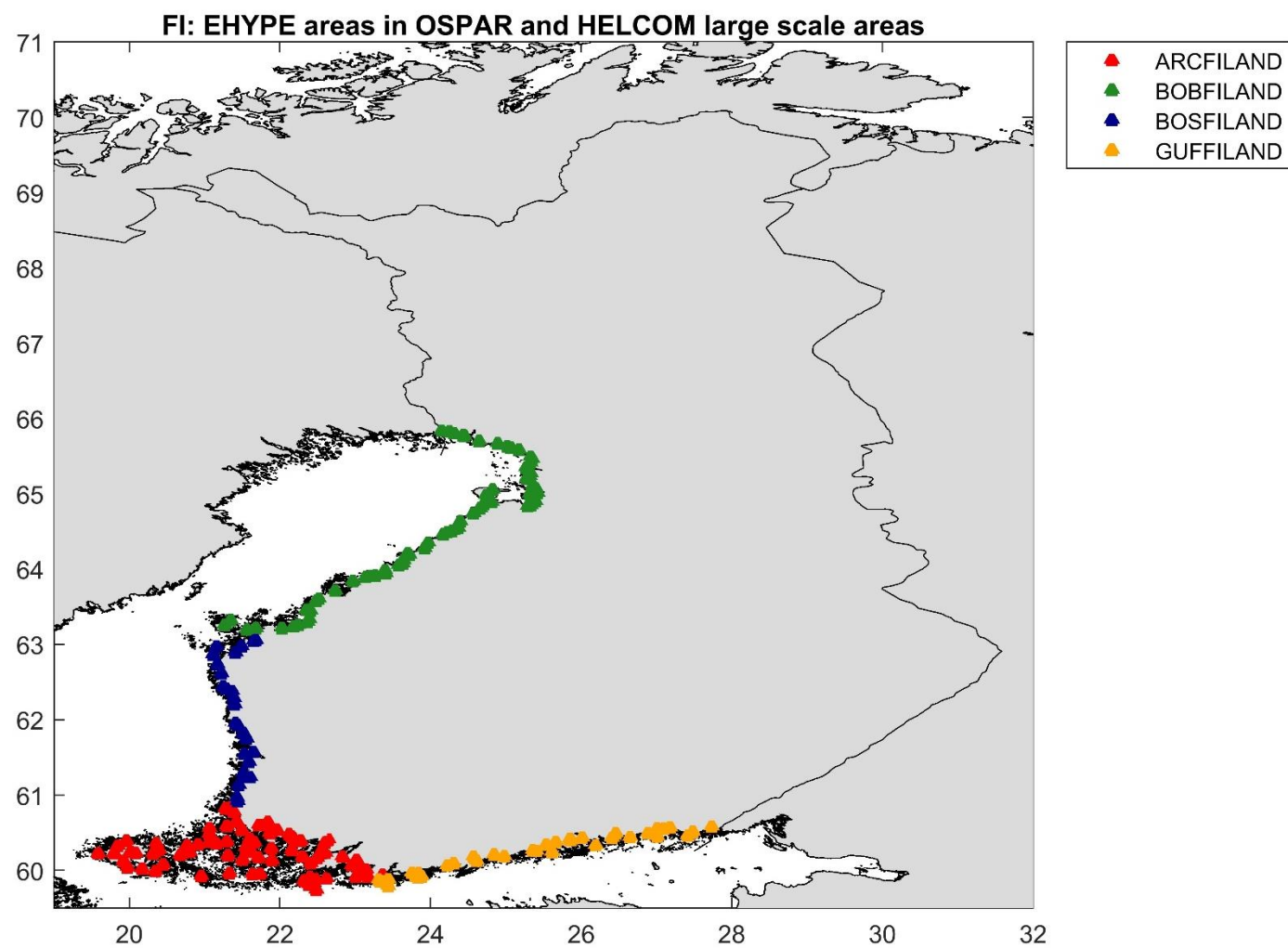


Figure 4.1: Allocation of Finnish E-HYPE areas.

5. France

Table 5.1: Flow stations used for French rivers.

River	Daily flow station	Station ID	Data start	Data end
IV-AG-AD-ADOUR		05223000	1990	2020
IV-AG-AD-Bidouze		05201050	1990	2020
IV-AG-AD-GavesReunis		05201400	1990	2020
IV-AG-AD-Luy		05219000	1990	2020
IV-AG-AD-Nive		05198750	2000	2020
II-LB-NB-Aulne		04179500	2010	2020
IV-LB-SB-Blavet		04194000	1990	2016
II-SN-NO-Bethune		03214000	1990	2020
II-AP-SO-Canche		01095000	1990	2020
IV-AG-CH-Boutonne		05002500	1998	2020
IV-AG-CH-CHARENTE		05006900	2005	2020
II-LB-NB-Couesnon		04163000	1990	2020
II-SN-NC-Dives		03231000	1993	2020
IV-AG-GD-DORDOGNE		05046000	2008	2020
IV-AG-GD-Isle		05029800	1990	2020
IV-AG-BA-Eyre		05191000	1990	2020
IV-AG-GG-Dropt		05079100	2001	2020
IV-AG-GG-GARONNE		05104000	1990	2020
IV-AG-GG-LOT		05084000	1990	2020
IV-LB-SL-Lay		04155500	2003	2020
IV-LB-LO-LOIRE		04134700	1990	2020
IV-LB-LO-Sevre-Nantaise		04146000	1990	2020
II-SN-NC-Orne		03237800	2005	2020
II-SN-NO-Saane		03216000	1997	2020
II-SN-SE-SEINE		03174000	1990	2020
II-SN-SE-Andelle		03181000	1990	2020
II-SN-SE-Eure		03193000	1990	2020

II-SN-SE-Risle		03221500	1990	2020
II-SN-SC-Selune		03272685	1990	2020
IV-AG-CH-Seudre		05025000	1990	2020
II-SN-NC-Seulles		03246000	1990	2020
IV-LB-SL-Sevre-Niortaise		04160400	1990	2020
II-SN-SC-Sienne		03266975	2010	2020
II-AP-SO-SOMME		01130000	2006	2020
II-SN-NC-Touques		03228000	1990	2020
IV-LB-SB-VILAINE		04216000	2003	2019
II-SN-NC-Vire		03252840	1994	2019
II-LB-NB-J1J2		J1405310	1994	2022

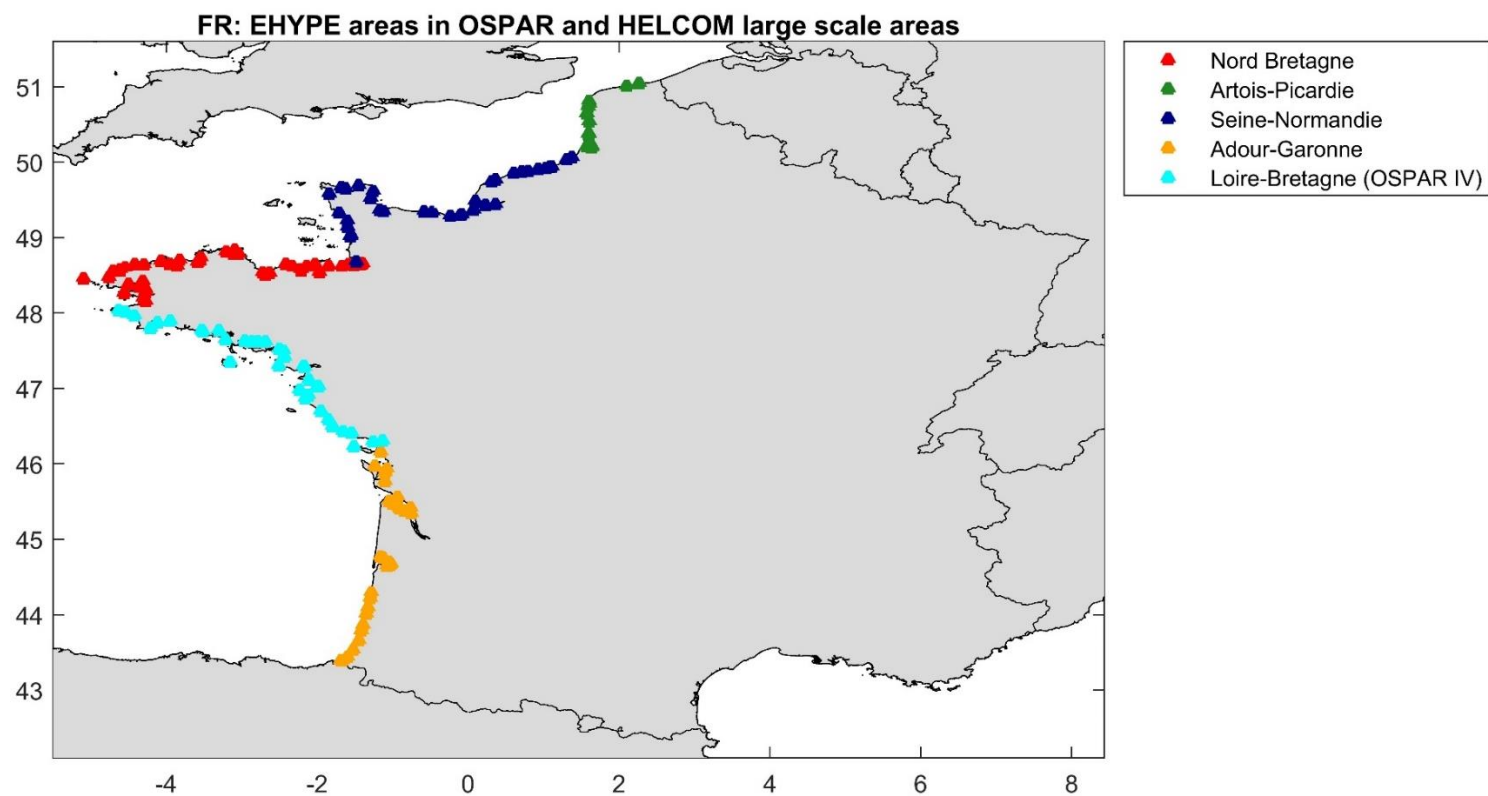


Figure 5.1: Allocation of French E-HYPE areas.

6. Germany

Table 6.1: German daily flow stations used, OSPAR rivers.

River	Daily flow station	Station ID	Data start	Data end
Eider	Tönning BP	111015	1985	2022
Eider - Treene	Friedrichstadt-Eidermühle	111111	1993	2020
Elbe	Neu Darchau	59300107	1960	2022
Ems	Versen	3730010	1977	2023

Oste (Elbe tributaries)	Rockstedt	30002	2010	2022
Stor (Elbe tributaries)	Willenscharen	114135	1985	2023
Weser	Intschede	49100101	1890	2023

HELCOM rivers

Table 6.2: German daily flow stations used, HELCOM rivers. If no station is given then no flow data was used.

River	Daily flow station	Station ID	Data start	Data end
AALBEK				
BARTHE				
DUVENBAEK	Kluis	6341350	1963	2020
FÜSINGER AU	Fusing	114528	2003	2023
GODDERSTORFER AU				
HAGENER AU				
HELLBACH				
KAROWER BACH				
KÖRCKWITZER BACH				
KOSELER AU	Kosel	114042	1985	2023
KOSSAU	Schonweide	114417	1998	2023
LANGBALLIGAU				
LIPPINGAU				
MAURINE				
OLDENBURGER GRABEN	Weissenhaus	114564	2007	2023
PEENE	Klempenow (on Tollense tributary)	6341500	1955	2021
PEEZER BACH				
PROHNER BACH				
RECKNITZ	Bad Suelze 2	6341301	1988	2020
RYCK				
SAALER BACH				
SCHWARTAU	Bad Schwartau	114460	2003	2023
SCHWENTINE	Preetz	114056	1985	2023
SEHROWER BACH				
STEPENITZ	Boerzow	6341250	1955	2023
TRAVE	Semsdorf	114100	1985	2023
UECKER				

WALLENSTEINGRABEN				
WARNOW	Buetzow	6341400	2000	2017
ZAROW				
ZIESE				

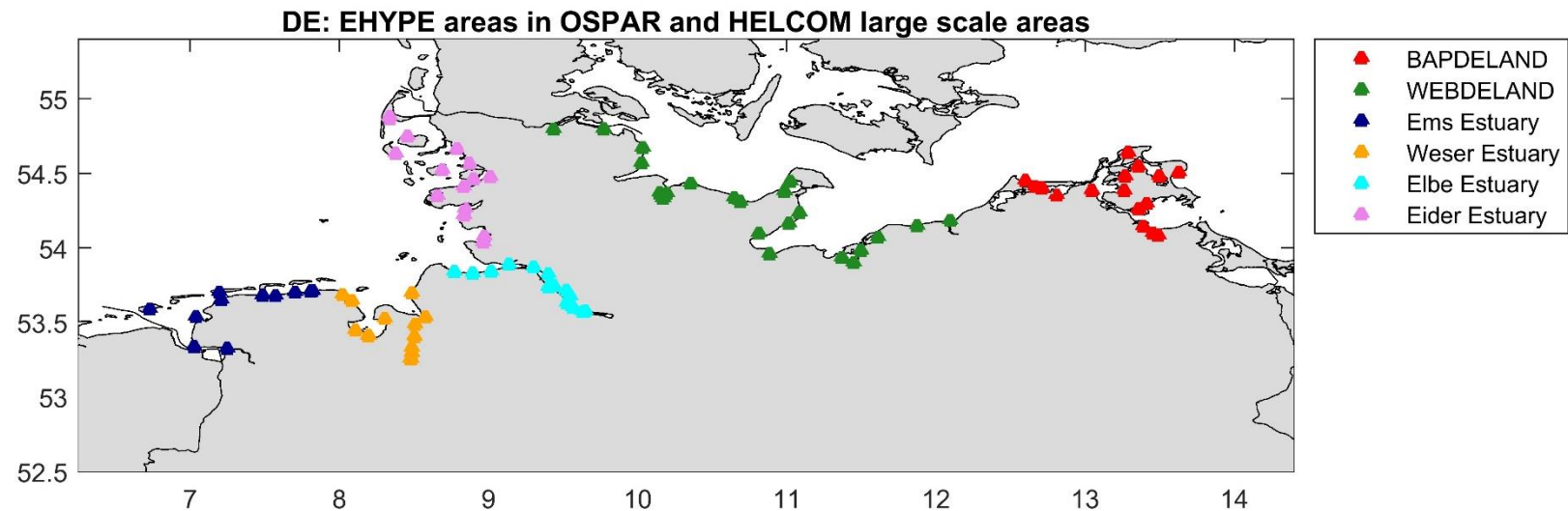


Figure 6.1: Allocation of German E-HYPE areas.

7. Great Britain

Table 7.1: UK PARCOMS areas and associated rivers, which are used both for daily flow data and as area outflow point.

Country	Name	River used	Station ID	Data start	Data end
GreatBritain	E1	Tweed	21009	1962	2021
GreatBritain	E2a	Tyne	23001	1956	2021
GreatBritain	E3	Wear	24009	1971	2021
GreatBritain	E4	Skerne	25021	1973	2021
GreatBritain	E5	Tees	25009	1959	2021

GreatBritain	E6	Esk at Whitby	27092	1972	2021
GreatBritain	E7a	Trent	28022	1968	2021
GreatBritain	E9	Great Eau	29002	1962	2021
GreatBritain	E9	Ely Ouse	33035	1958	2021
GreatBritain	E10	Yare	34001	1959	2021
GreatBritain	E11	Chelmer	37008	1965	2021
GreatBritain	E12	Thames	39001	1886	2021
GreatBritain	E13	Great Stour	40011	1964	2021
GreatBritain	E14	Adur	41012	1967	2021
GreatBritain	E15	Test	42004	1957	2021
GreatBritain	E16	Frome	44001	1965	2021
GreatBritain	E17	Exe	45007	1996	2021
GreatBritain	E18	Tamar	47001	1956	2021
GreatBritain	E19	Camel	49001	49001	2019
GreatBritain	E20	Taw	50001	1958	2021
GreatBritain	E21	Parrett	52007	1966	2021
GreatBritain	E22	Severn	54057	1971	2021
GreatBritain	E23	Usk	56001	1957	2021
GreatBritain	E24	Neath	58002	1962	2021
GreatBritain	E25	Tywi	60010	1958	2021
GreatBritain	E26	Teifi	62001	1959	2021
GreatBritain	E27	Dee at Chester	67015	1937	2021
GreatBritain	E28	Mersey	69037	1986	2021
GreatBritain	E29	Lune	72004	1958	2021
GreatBritain	E30	Eden at Carlisle	76007	1967	2021
GreatBritain	NI1	Lower Bann	203040	1981	2021
GreatBritain	NI2	Lagan	205004	1972	2021
GreatBritain	SC1	Nith	79002	1957	2021
GreatBritain	SC2	Clyde	84013	1967	2021
GreatBritain	SC2a	Lochy	91002	1980	2021
GreatBritain	SC2b	Helmsdale	2001	1975	2021
GreatBritain	SC3	Spey	8006	1953	2021
GreatBritain	SC4	Tay	15006	1953	2021
GreatBritain	SC5	Forth	18011	1981	2021

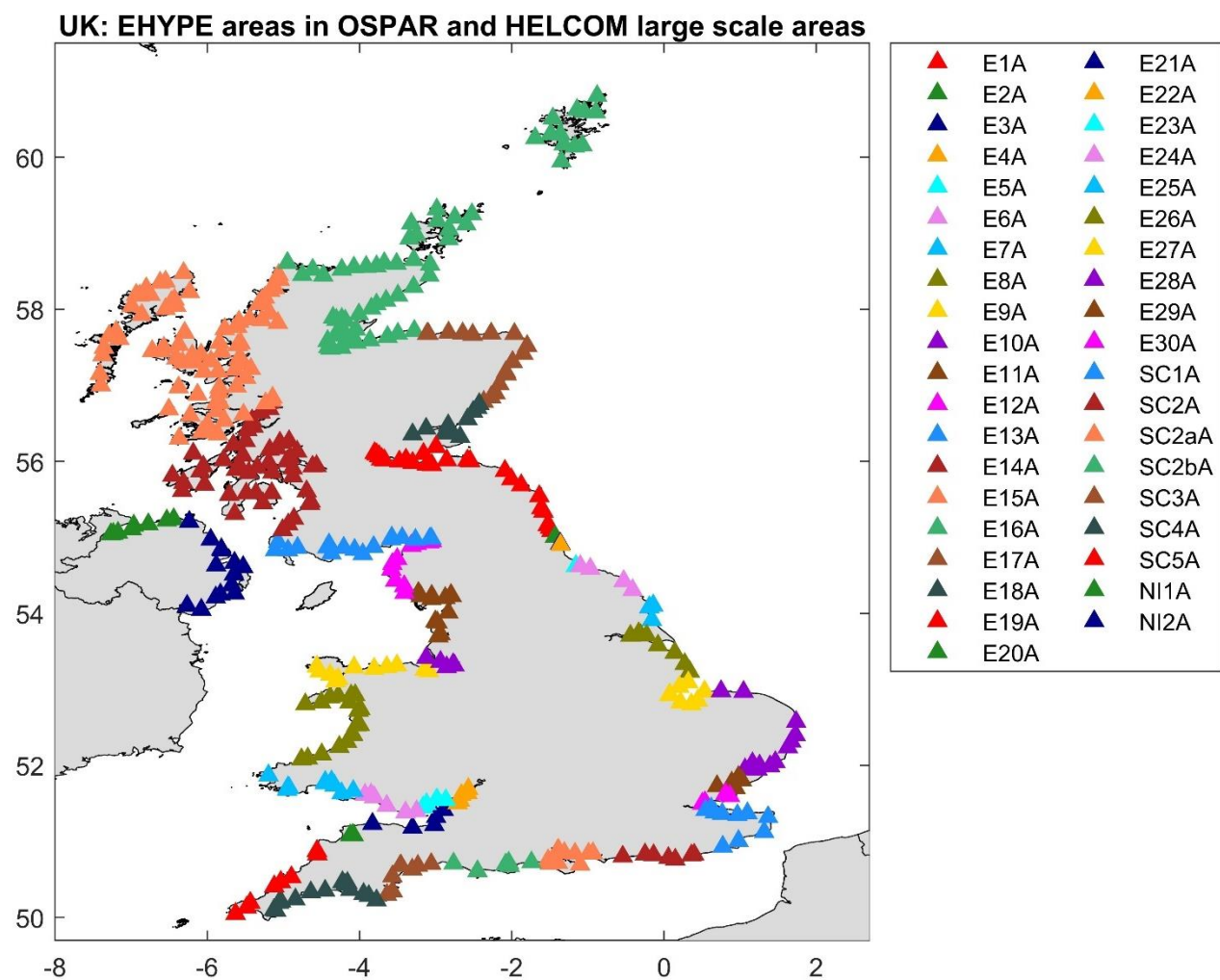


Figure 7.1: Allocation of British E-HYPE areas.

8. Iceland

Iceland has not reported on any direct discharges or unmonitored areas. Hence, no E-HYPE areas have been allocated. The station ID in the table below refers to the Global Runoff Data Centra ID.

Table 8.1: Icelandic riverine daily flow stations used.

River	Daily flow station	Station ID	Data start	Data end
Olfusa	Serfloss	6401090	1951	2020
Thjorsa	Krokus	6401120	1948	2020

9. Ireland

Table 9.1: Irish riverine daily flow stations used.

River	Daily flow station	Station ID	Data start	Data end
Avoca	White bridge	10044	2009	2023
Bandon	Curranure	20002	1975	2023
Barrow	Graiguenamanagh U/S	14029	1966	2023
Blackwater	Ballyduff	18002	1972	2023
Boyne	Slane Castle	07012	1940	2023
Corrib	Wolfe Tone bridge	30061	2009	2023
Deel	Rathkeale	24013	1972	2023
Erne	Cathleens Fall	36092	1970	2020
Fergus	Ballycorey	27002	1954	2023
Claureen (Fergus)	Inch bridge	27001	1972	2023
Lee	Innescara	19013	1990	2023
Liffey	Leixlip power station	09022	1990	2023
Maigue	Castle Roberts	24008	1976	2023
Moy	Rahans	34001	1969	2023
Nore	Brownsbarn	15006	1972	2023
Shannon (old channel)	Banagher	25017	1989	2023
Shannon (tailrace)	Parteen weir	25075	1990	2023
Slaney	Scarrawalsh	12001	1955	2023

Suir	Clonmel	16011	1972	2023
------	---------	-------	------	------

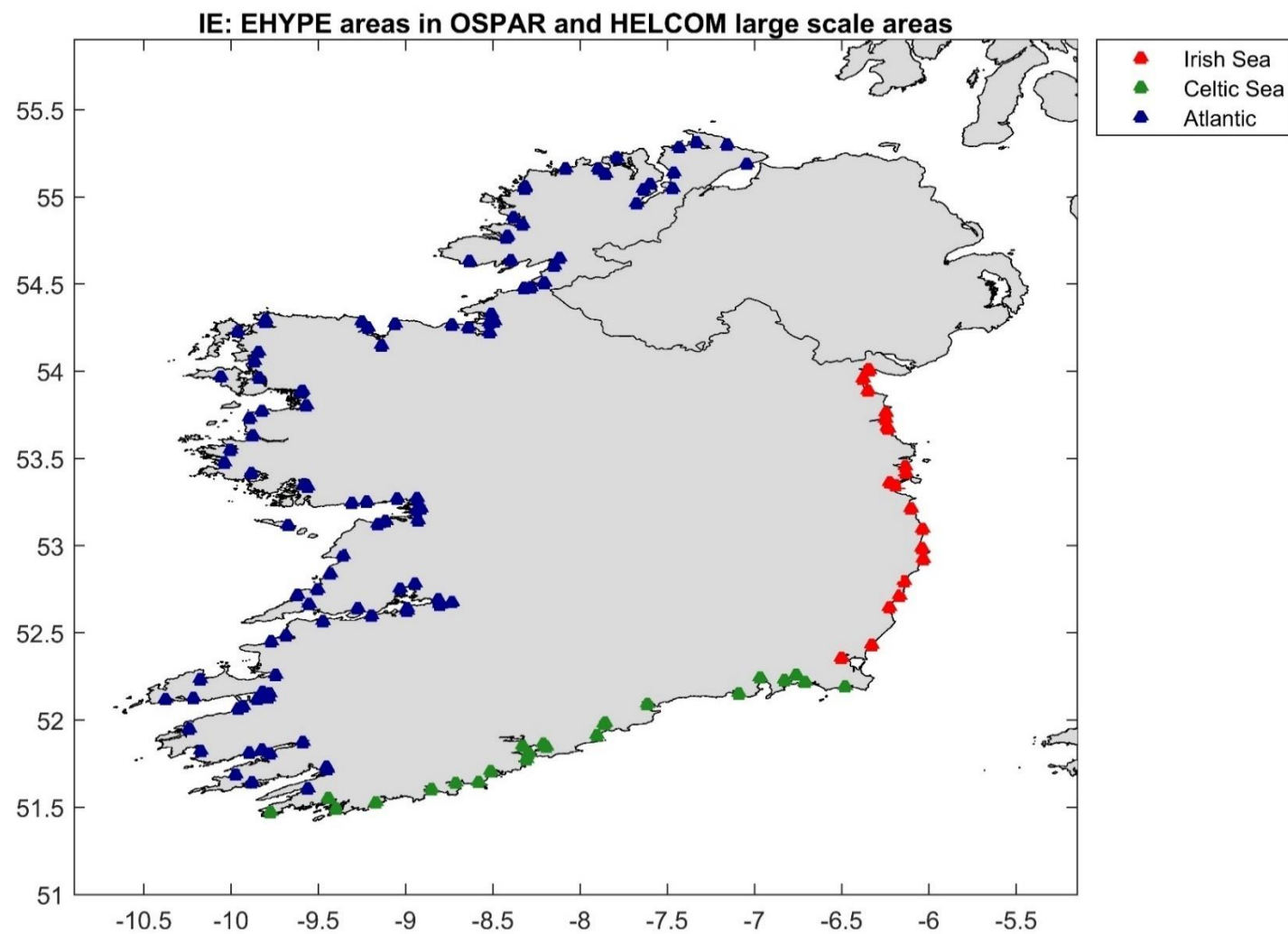


Figure 9.1: Allocation of Irish E-HYPE areas.

10. Latvia

For Latvia all daily flow data was obtained form the Global Run-off Data Centre

Table 10.1: Daily flow stations used for Finnish HELCOM rivers.

River	Daily flow station	Station ID	Data start	Data end
BARTA	DUKUPJI	6373151	1986	1995
DAUGAVA	RIGAS HES	6373307	1980	2002
GAUJA	SIGULDA	6372104	1986	1995
IRBE	VICAKI	6373912	1986	1995
LIELUPE	MEZOTNE	6373400	2004	2022
RIVA	PIEVIKI	6373921	1986	1995
SAKA				
SALACA	LAGASTE	6373932	1980	2002
UZAVA	TERANDA	6372941	1986	1995
VENTA	KULDIGA	6373010	1978	2022

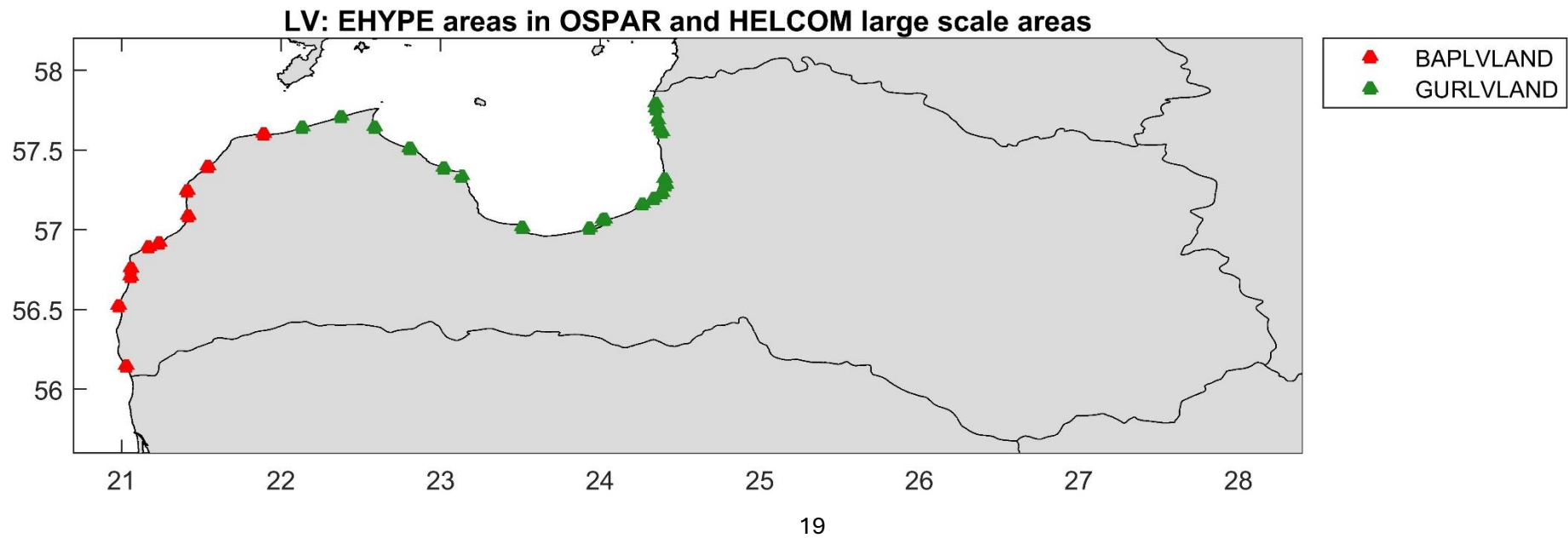


Figure 10.1: Allocation of Finnish E-HYPE areas.

11. Lithuania

All Lithuanian daily flow data was obtained from the Global Run-off Data Centre.

Table 11.1: Daily flow stations used for Finnish HELCOM rivers.

River	Daily flow station	Station ID	Data start	Data end
AKMENA-DANE	KRETINGA	6573163	1992	2022
NEMUNAS	SMALININKAI	6574150	1821	2022
SVENTOJI				

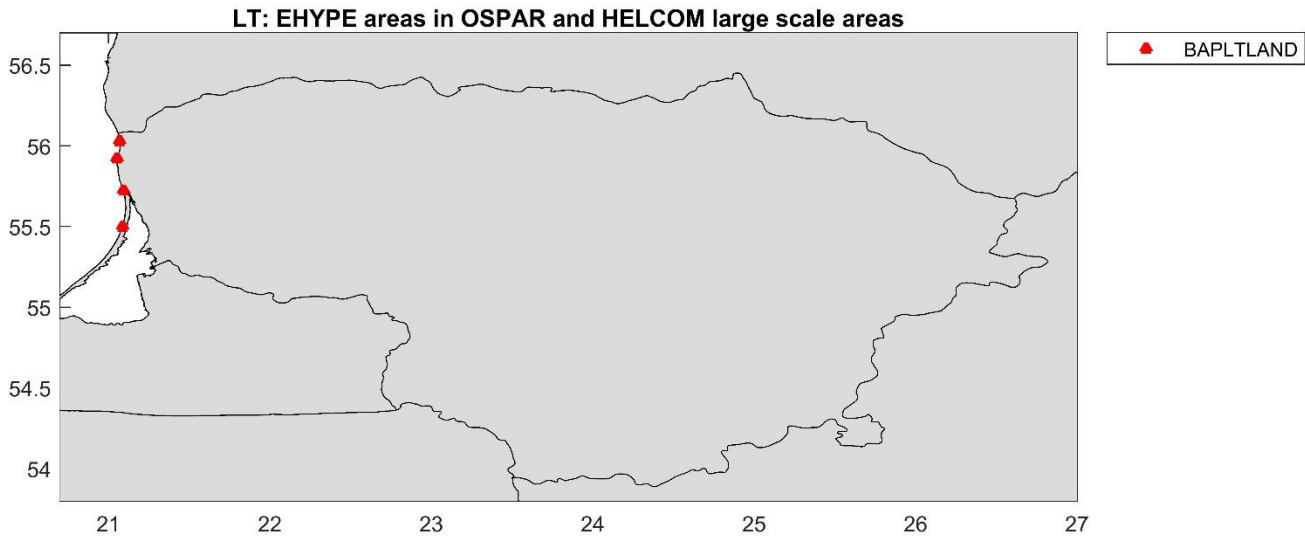


Figure 11.1: Allocation of Finnish E-HYPE areas.

12. The Netherlands

Table 12.1: Dutch riverine daily flow stations used.

River	Daily flow station	Station ID	Data start	Data end
Lake IJssel	Den Oever buiten	DENOVBTN	1976	2021
	Kornwerderzand buiten	KORNWDZBTN	1976	2021
Meuse	Haringvlietsluizen binnen	HARVSZBNN	1971	2020
North Sea Canal	IJmuiden binnen	IJMDBNN	1968	2021
Rhine	Maassluis	MAASSS	1971	2022

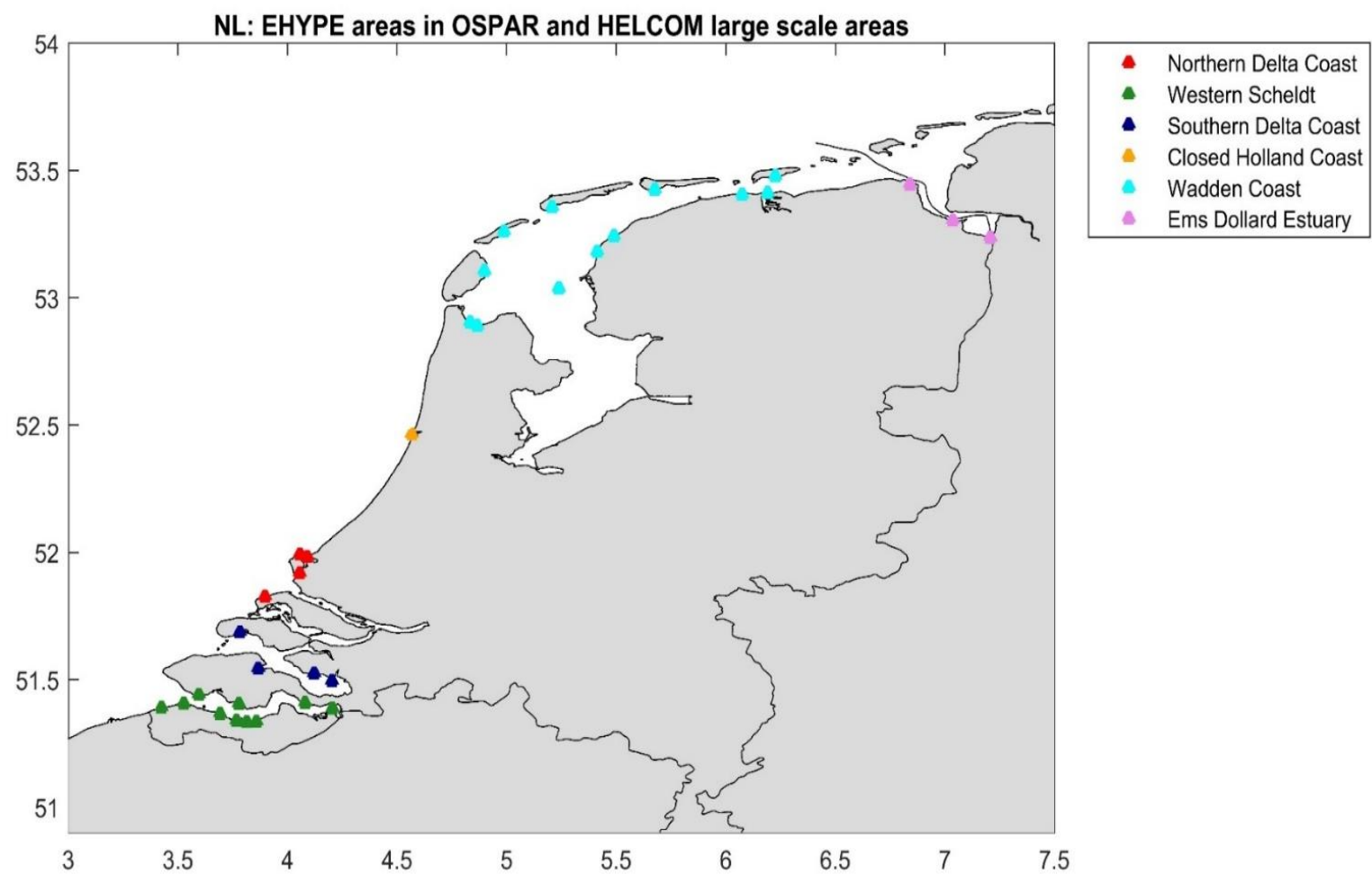


Figure 12.1: Allocation of Dutch E-HYPE areas.

13. Norway

Table 13.1: flow stations used to give Norwegian reported rivers a seasonal signal.

River Name	River system	Flow Station ID	Flow Station Name	Data start	Data end
Alta	Alta	212.11.0	Kista	1971	2023
Eibyelva	Alta	212.27.0	Eibyelva v/Hammeren	2007	2023
Drammenselva	Drammenselva	12.285.0	Døvikfoss	1912	2023
Glomma	Glomma	2.605.0	Solbergfoss	1964	2023
Lysakerelven	Inner Oslofjord	8.2.0	Bjørnegårdssvingen	2000	2023
Akerselva	Inner Oslofjord	6.9.0	Akerselva, ndf. Maridalsvatn	1968	2023
Numedalslagen	Numedalslagen	15.61.0	Holmfos i Numedalslagen	1970	2023
Orkla	Orkla	121.10.0	Bjørset Dam	1912	2023
Orreelva	Orreelva	28.11.0	Lye 2	1983	2023
Otra	Otra	21.11.0	Heisel	1930	2023
Skienselva	Skienselva	16.133.0	Skotfoss	1998	2023
Suldalslagen	Suldalslagen	36.105.0	Strapa	2014	2023
Vefsna	Vefsna	151.28.0	Laksfors	1952	2023
Vosso	Vosso	62.5.0	Bulken	1892	2023

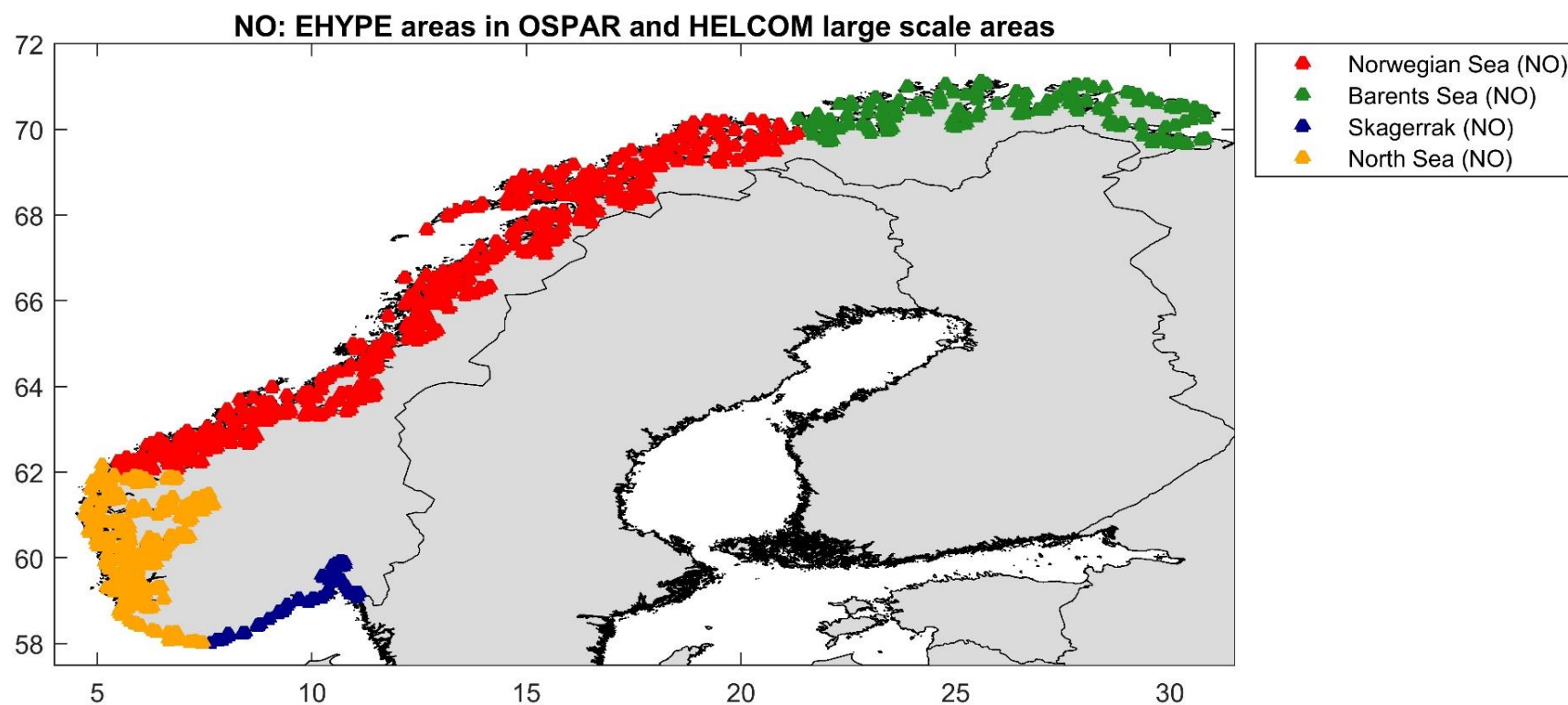


Figure 13.1: Allocation of Norwegian E-HYPE areas.

14. Poland

All Polish daily flow data was obtained from the Global Run-off Data Centre.

Table 14.1: Daily flow stations used for Polish HELCOM rivers.

River	Daily flow station	Station ID	Data start	Data end
GRABOWA				
INA	GOLENIOW	6457990	1951	2022
LEBA				

LUPAWA	LUPAWA	6456110	1961	2022
ODER	HOHENZAATEN-FINOW	6357010	1920	2022
PARSETA				
PASLEKA				
REDA				
REGA	TRZEBIATOW	6456107	1950	2022
SLUPIA	SLUPSK	6456120	1951	2022
VISTULA	TCZEW	6458010	2019	2022
WIEPRZA				

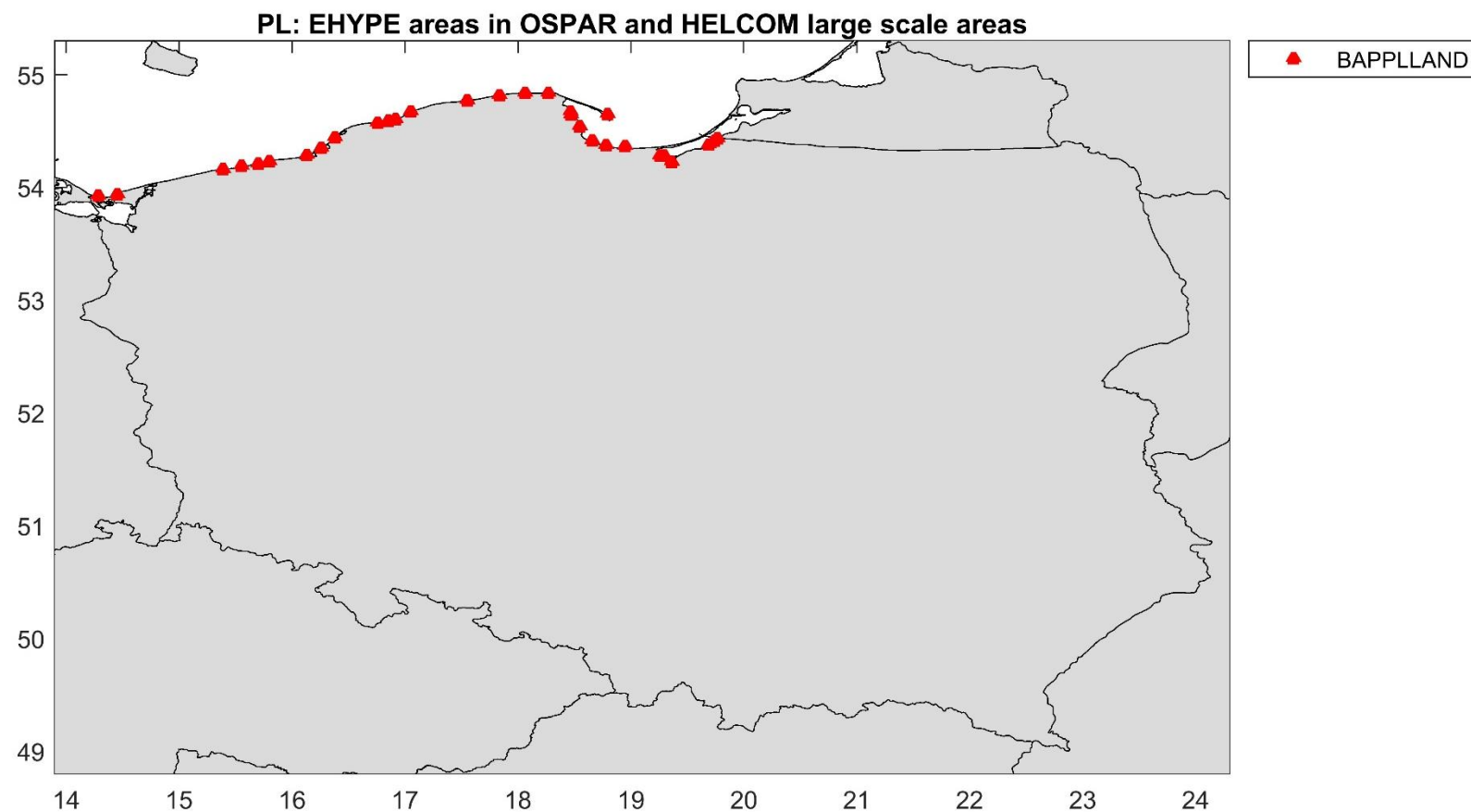


Figure 14.1: Allocation of Polish E-HYPE areas.

15. Portugal

Table. 15.1: Flow stations used for Portuguese rivers.

River	Daily flow station	Station ID	Data start	Data end
Tejo	ALMOUROL	17G/02H	1974	2023

Douro	ALBUFEIRA DE CRESTUMA (R.E.)	07G/01A	1997	2023
-------	------------------------------	---------	------	------

PT: EHYE areas in OSPAR and HELCOM large scale areas

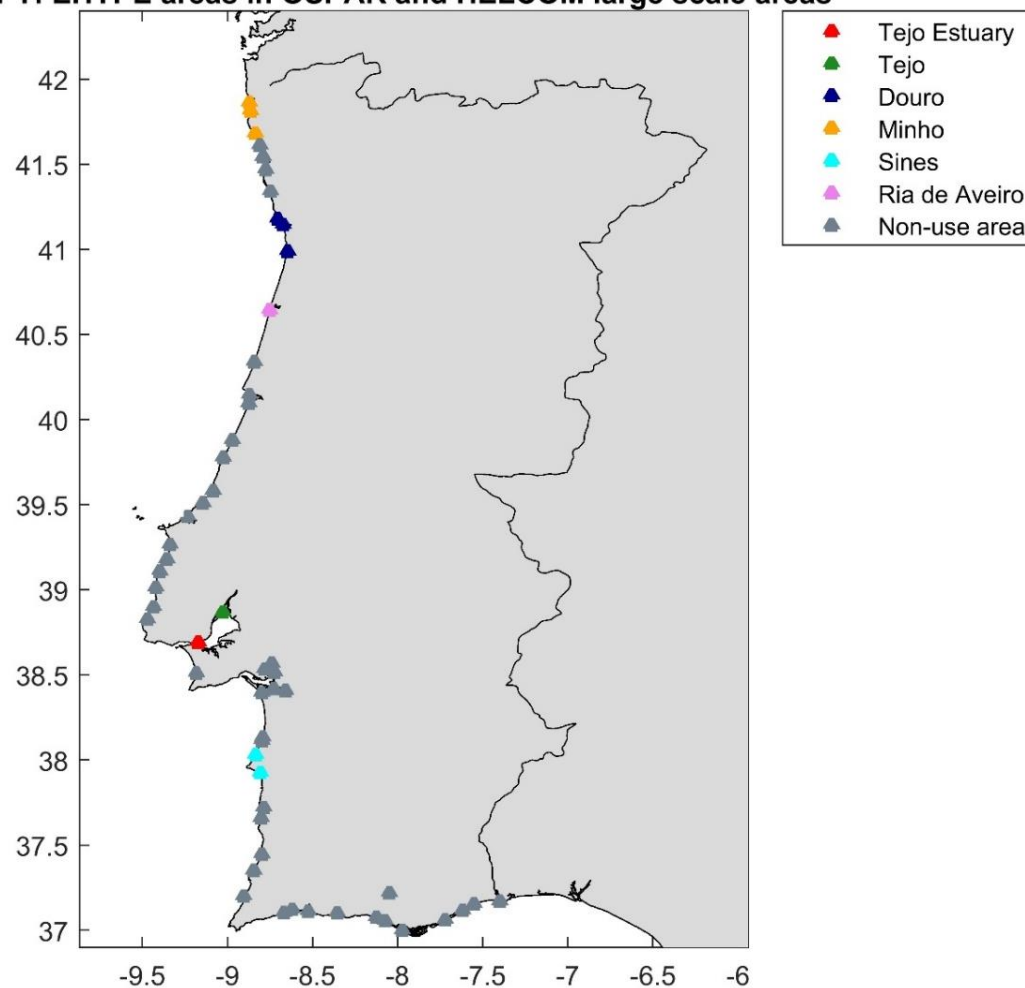


Figure 15.1: Allocation of Portuguese E-HYPE areas.

16. Russia

For Russia the reported river Narva is not used: this is the border river between Estonia and Russia and Estonian reported values are used. The RID database does not include any Russian riverine data, so that Russian rivers exiting into the Barents Sea are not included. All Russian daily flow data was obtained from the Global Run-off Data Centre.

Table 16.1: Daily flow stations used for Russian HELCOM rivers.

River	Daily flow station	Station ID	Data start	Data end
KOVASHI				
KRASNENSKAYA				
LUGA	TOLMACHEVO	6972400	1978	1987
NEVA	NOVOSARATOVKA	6955430	1945	2011
PREGOLYA				
SELEZNEVKA				
SESTRA				
SHINGARKA				
SISTA				
STRELKA				
TCHERNAYA				
TCHULKOVKA				
VORONKA				

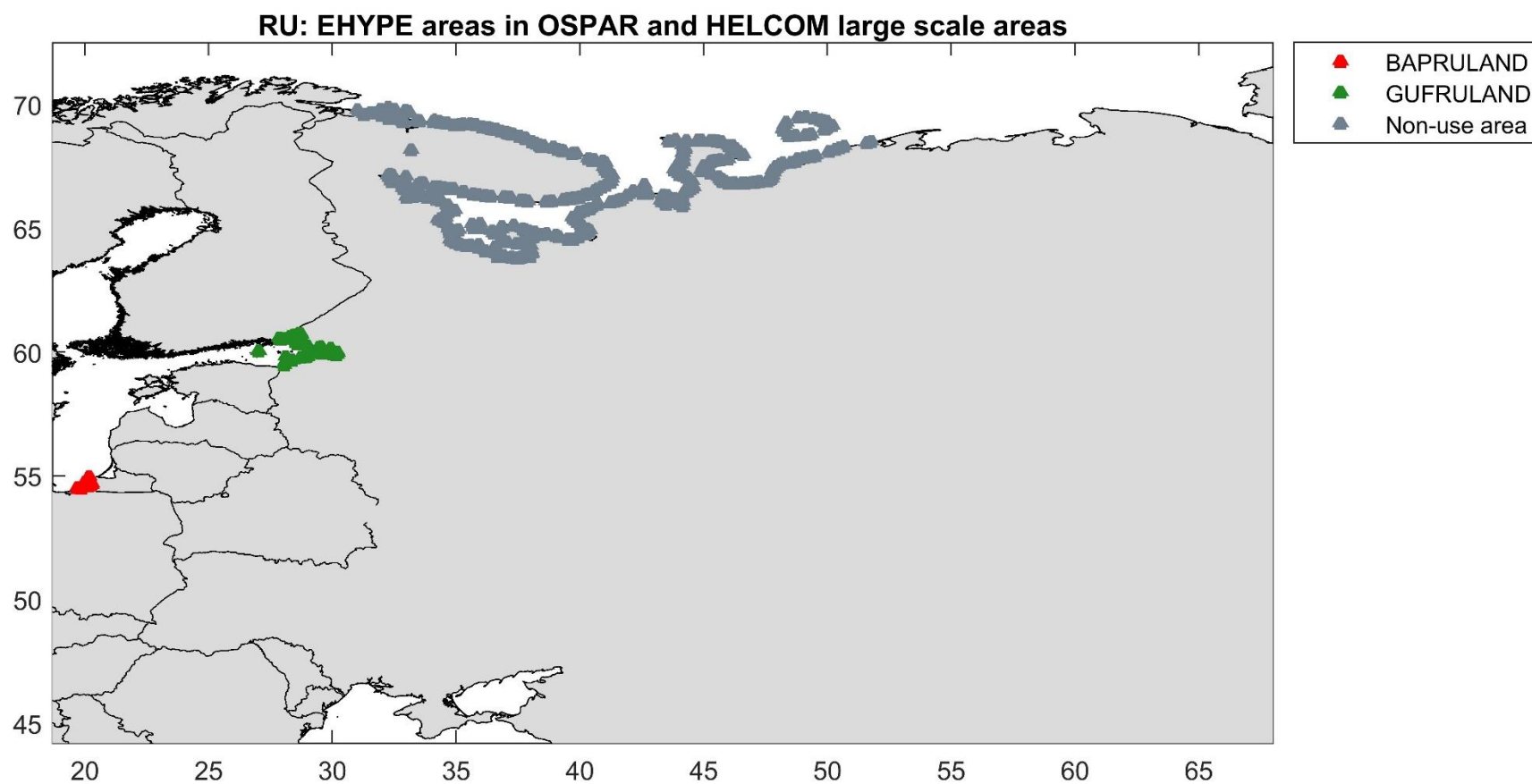


Figure 16.1: Allocation of Russian E-HYPE areas.

17. Spain

Table 17.1: daily flow data from CEDEX. Rivers without a flow station number have not yet been allocated a daily flow station. Red years indicates rivers where the available flow data does not cover the main period of interest (2015-2020), red river names indicate rivers where no flow data was found and a substitute station was used.

RID river name	Flow Station Name	Flow Station ID	Data start	Data end	Remarks
Allones	Allones	1485	1971	2019	Local river name is Anllons
Artibay	Berriatua	1141	1970	2006	Local river name is Artibai
Ason	Coterillo	1196	1969	2019	
Barbadun	Sodupe	1175	1970	2009	On the Herrerias, a tributary to the Nervion. No flow station found on the Barbadun
Belelle	Macineira	1449	2008	2019	
Butron	Berriatua	1163	1971	2019	No flow station on this river, using Arriata station instead
Castro	Ponte de Constante	1506	2008	2019	
Deva	Puentelles	1268	1970	2019	Basque name is Deba Ibaia
Eo	San Tirso de Abres	1427	1913	2019	
Eume	Ribeiranova	1455	2008	2019	
Guadalete	Pueblo de Cazalle	5146	1982	2019	No daily flow data found, using Rio Corbones (Guidalquivir)
Guadaira	Encauzamiento	5057	1985	2018	Tributary to the Guadalquivir
Guadalquivir	Mengibar	5004	1912	2019	Relatively far upstream
Guadiana	El Guijo	5090	1981	2019	Main tributary to the Guadalquivir
Guadiana	Azud De Badajoz	4030	1986	2019	Far upstream
Landro	Chavin	1438	1975	2019	
Lea		1268	1970	2019	Deva station, no daily flow station on this river
Lerez	Couso	1578	2008	2019	
Mandeo	Muniferal	1464	1970	2019	
Masma	Masma	1431	1970	2019	
Mera	Santa Maria de Mera	1443	1970	2019	

Mero	Telva	1473	2014	2019	
Miera	Cavada	1207	1969	2019	
Louro	Tuy	1647	1973	2019	Tributary of Miño
Miño	Salvatierra de Mino	1642	2009	2019	Upstream, RID uses just Louro and Mino, indicating they use flow values at Tuy for the Mino. Daily flow at Tuy for the Mino is 2015-2017 only
Oca		1268	1970	2019	Basque name is Oka, not the same as the Oca tributary to the Ebro. Flows into Mundakako Itsasadarra (Urdabai estuary). No daily flow, using Deva instead.
Nalon	Condado	1335	1913	2019	
Asua		1163	1971	2019	Tributary to the Nervion, in the estuary part. No daily flow station on river, using Nervion instead
Cadagua	Sodupe	1175	1970	2009	Herrerias tributary to the Cadagua, which is a tributary to the Nervion in the estuarine part
Galindo		1175	1970	2009	Herrerias tributary to the Cadagua, which is a tributary to the Nervion in the estuarine part. No daily flow found for Galindo, a separate tributary to the Nervion in the estuarine part
Ibaizabal	Lemona	1163	1971	2019	Ibaizabal tributary to the Nervion
Nervion	Lemona	1164	1971	2019	Arriata tributary to the Nervion
Oyarzun	Oyarzun	1107	1971	2006	
Oria	Andoain	1080	1952	2010	
Oro	SanAcisclo	1433	1971	2019	
Pas	Puente Viesgo	1215	1971	2013	
Piedras		5147	1994	2019	No flow station on this river, using Huelva (Zufre) instead (Guadalquivir)

Forcadas	Porto do Cabo	1445	2009	2019	Assumed to be the reservoir, which exits into the Rego de Ferrerías. Using daily flow from Rego das Mestas instead
Grande	Casanovas	1497	2008	2015	
Grande de Jubia	San Sadurino	1446	1971	2019	Rio Grande de Xubia in Galician
Saja	Torrelavega	1237	1996	2019	
Sella	Cangas de Onis	1295	1922	2019	
Sor	Puente Segade	1440	1997	2019	
Tambre	Carollo	1520	2002	2019	
Odiel		5147	1994	2019	No flow station on this river, using Huelva (Zufre) instead (Guadalquivir)
Tinto		5147	1994	2019	No flow station on this river, using Huelva (Zufre) instead (Guadalquivir)
Traba		1485	1971	2019	No daily flow station on river Traba, closest rivers are Rio Grande de Porto and the Allones. Using Allones
Deza					Ulla tributary
Furelos	Puente Barazon	1542	1971	2019	Ulla tributary
Ulla	Ponte Nova	1544	1972	2019	
Umia	Caldas de Reis	1564	1971	2019	
Urola	Echabe	1109	1970	2006	
Urumea	Erenozu	1105	1970	2019	
Verdugo	Ponte Caldelas	1585	2009	2019	
Jallas	Ponte Olveira	1514	2009	2019	Xallas in local language

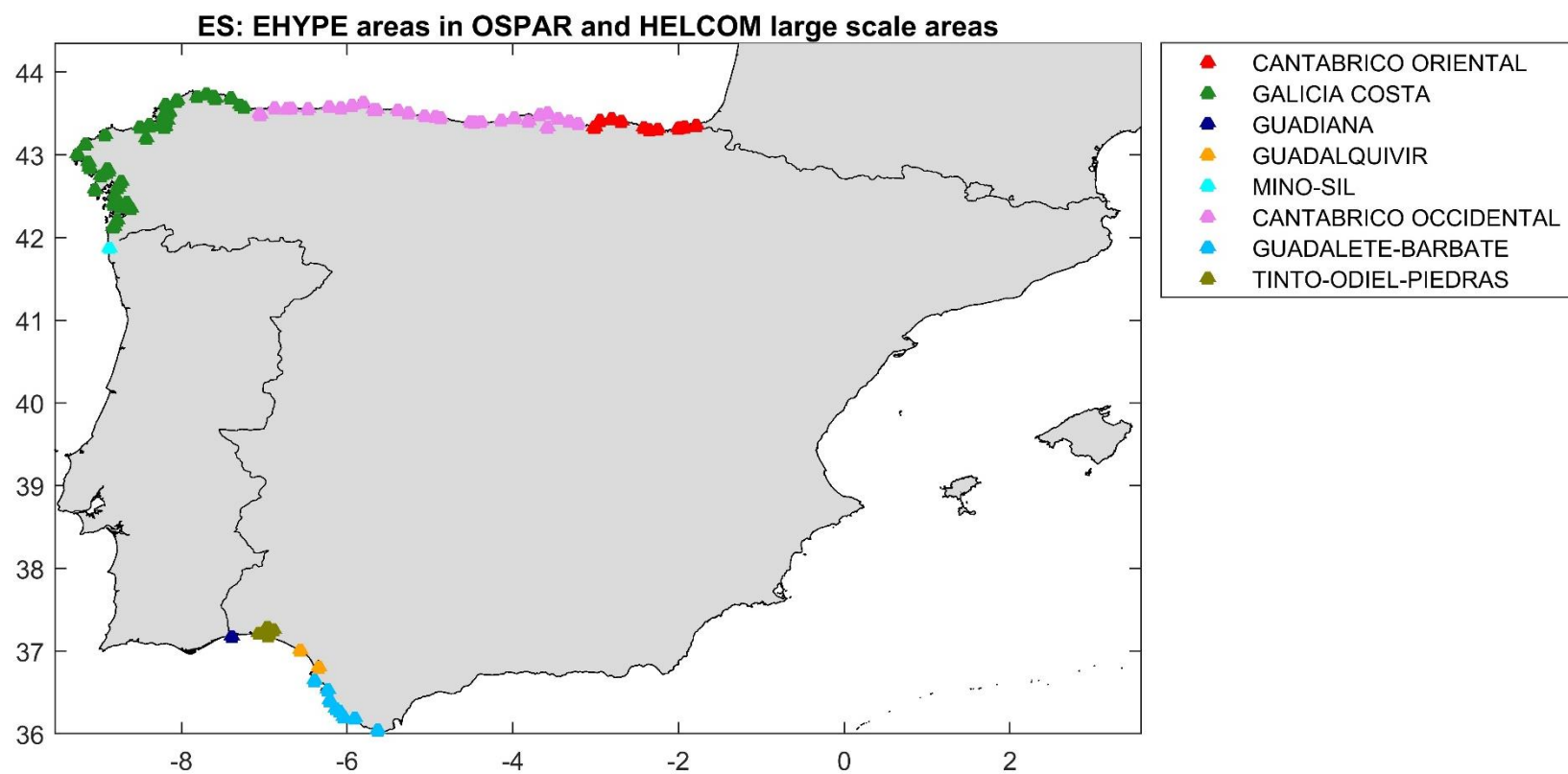


Figure 17.1: Allocation of Spanish E-HYPE areas.

18. Sweden

Table 18.1: Flow stations used for Swedish rivers, both OSPAR and HELCOM

River	Daily flow station	Station ID	Convention	Data start	Data end
Ätran			OSPAR	1976	2022
Bäveån			OSPAR	1972	2022
Enningsdalsälven			OSPAR	1972	2022

Fylleån			OSPAR	1928	2022
Genevadsån			OSPAR		
Göta älv			OSPAR	1965	2022
Himleån			OSPAR		
Lagan			OSPAR	1972	2022
Nissan			OSPAR	1972	2022
Örekilsälven			OSPAR	1972	2022
Rolfsån			OSPAR	1983	2022
Rönne å			OSPAR	1967	2022
Stensån			OSPAR		
Strömsån			OSPAR	1972	2023
Suseån			OSPAR		
Vege å			OSPAR		
Viskan			OSPAR	1967	2022
ALSTERÅN			HELCOM	1985	2022
ALTERÄLVEN			HELCOM	1974	2022
ÅNGERMANÄLVEN			HELCOM	1969	2022
BOTORPSSTRÖMMEN			HELCOM	1965	2022
DALÄLVEN			HELCOM	1965	2022
DELÅNGERSÅN			HELCOM	1969	2022
EMÅN			HELCOM	1967	2022
FORSMARKSÅN			HELCOM	1978	2022
GAVLEÅN			HELCOM	1969	2022
GIDE ÄLV			HELCOM	1969	2022
GOTHEMSÅN			HELCOM	1987	2022
HELGE Å			HELCOM	1969	2022
INDALSÄLVEN			HELCOM	1969	2022
KALIX ÄLV			HELCOM	1969	2022
LJUNGAN			HELCOM	1969	2022
LJUNGBYÅN			HELCOM	1965	2022
LJUSNAN			HELCOM	1969	2022
LÖGDE ÄLV			HELCOM	1976	2022
LULE ÄLV			HELCOM	1969	2022
LYCKEBYÅN			HELCOM	1969	2022
MÖRRUMSÅN			HELCOM	1965	2022
MOTALA STRÖM			HELCOM	1969	2022
NORRSTRÖM MÄLARENS UTLOPP			HELCOM	1965	2022

NYKÖPINGSÅN			HELCOM	1969	2022
ÖRE ÄLV			HELCOM	1967	2022
PITE ÄLV			HELCOM	1967	2022
RÅÅN			HELCOM	1980	2022
RÅNE ÄLV			HELCOM	1965	2022
RICKLEÅN			HELCOM	1977	2022
SKELLEFTE ÄLV			HELCOM	1969	2022
TÖRE Å			HELCOM	1974	2022
TORNE ÄLV - TORNIONJOKI			HELCOM	1969	2022
UME ÄLV			HELCOM	1969	2022

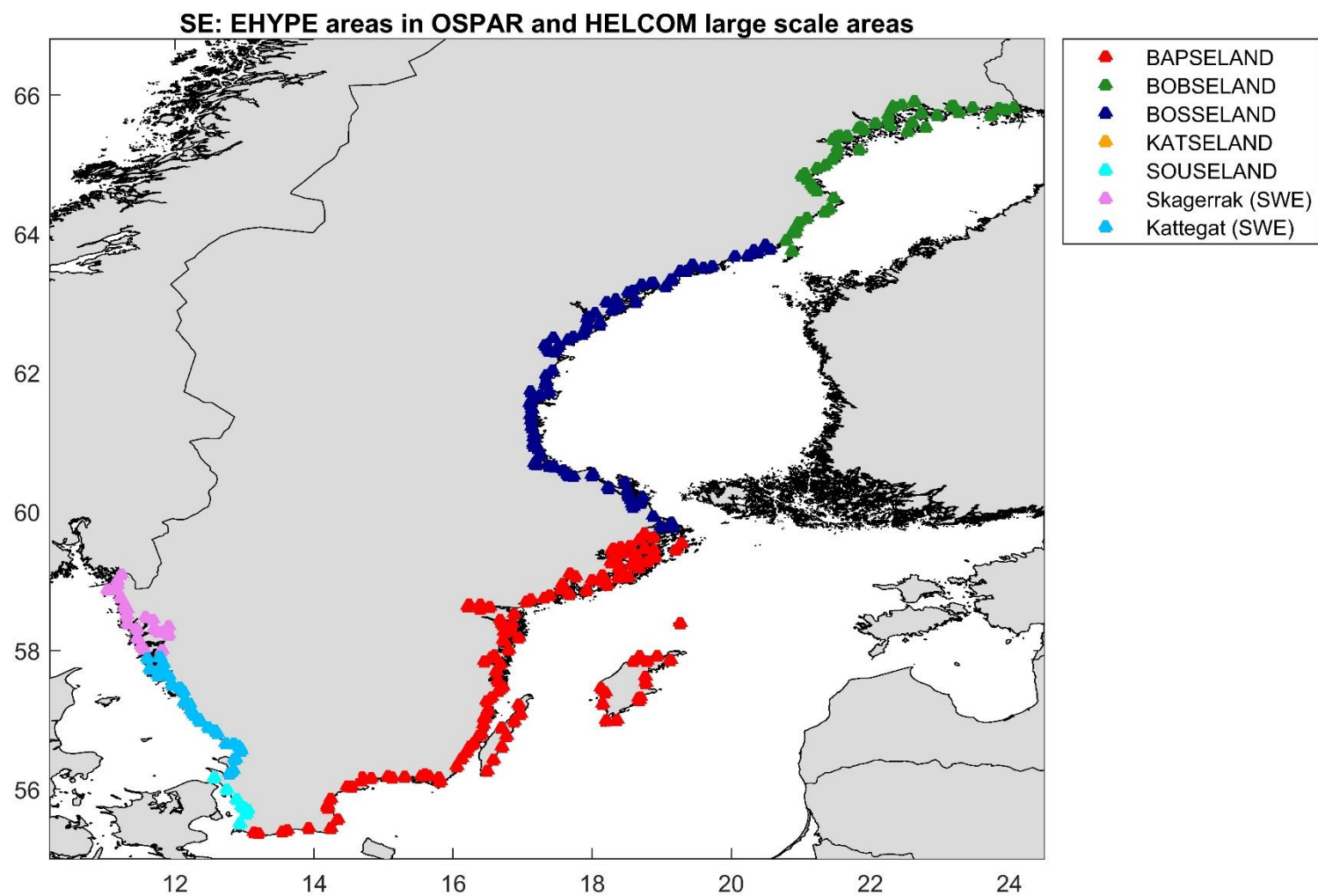


Figure 18.1: Allocation of Swedish E-HYPE areas.