



Progress on River Discharge and Plans

IBI-ROOS Meeting 14-16 February 2012, Pasaia





IBI-ROOS River Data Inventory

Goal

Compile an inventory of river discharge data in the IBI-ROOS region that will be suitable for operational monitoring and forecasting of the coastal and shelf seas. In particular, use in numerical modeling of ocean hydrodynamics and biochemistry is targeted.

Purpose

To assess what is currently available of river data for use in ocean modeling and monitoring; to motivate exchange of river data between members; to motivate improved access to data from producers.

At IBI scale

- 20 main rivers (homogenous source at ROOS scale)
- More detailed Catalogue Metadata inventory

Accessibility

kml in the IBI portal



IBI-ROOS Main River

The river runoff dataset was essentially built from the long term monthly and annual discharges at the stations collected by the GRDC (Global Runoff Data Centre, <http://grdc.bafg.de>). It has been complemented over France by using the French hydrographic database "Banque Hydro" available online at <http://hydro.eaufrance.fr>.

We have selected the most-downstream stations for all the ocean-reaching rivers over the model area. Care has been taken to include significant branch rivers entering the main streamflow between the river mouth and the most downstream station. In the model, in the IBI area, we have chosen to apply the top 20 rivers as lateral point sources.

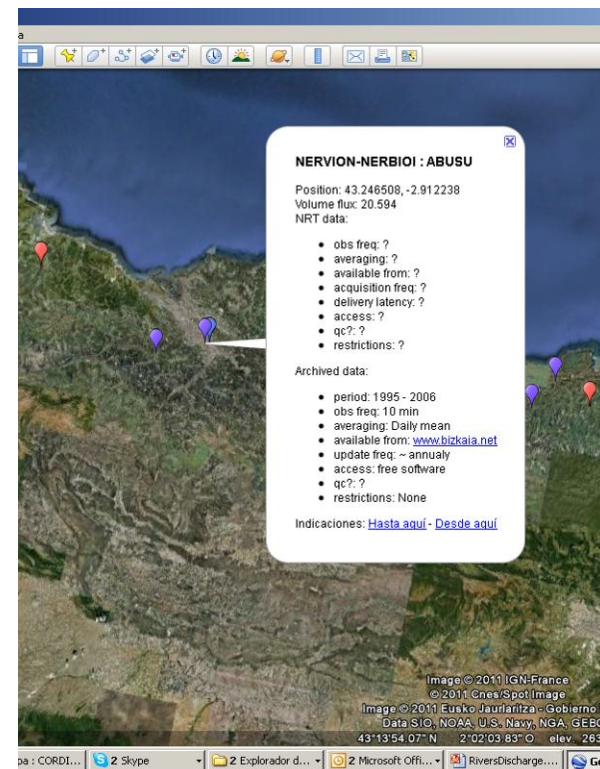
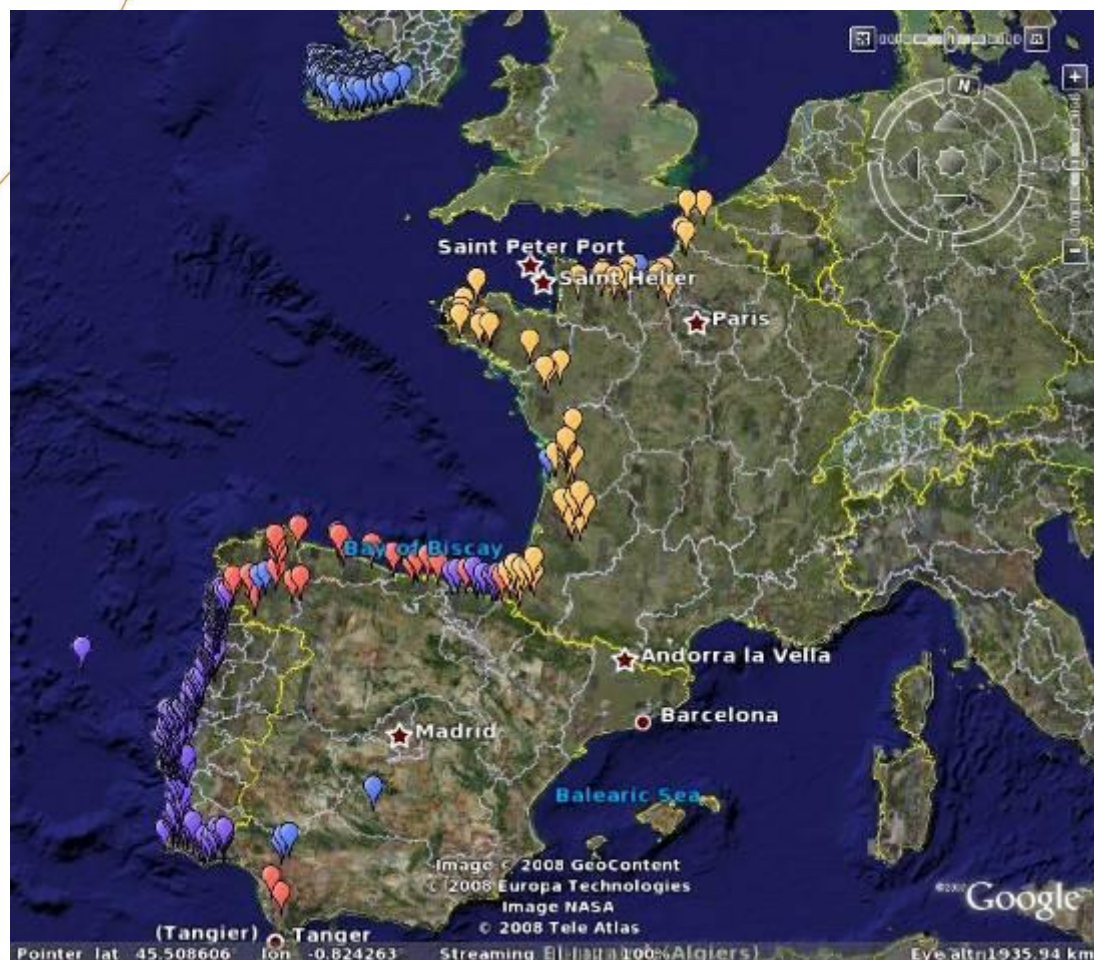
IBI	N	River name	CO	lon	lat	Mth	Qmoy(m3/s)
1	1	RHINE RIVER	NL	4,10	51,98	1	2227,47
1	3	GARONNE	FR	-0,73	45,26	1	944,2
1	4	LOIRE	FR	-2,04	47,30	1	909
1	7	SEINE	FR	0,30	49,43	1	567
1	11	TEJO	PT	-9,22	38,68	1	343,25
1	12	MINHO	PT	-8,87	41,87	1	326,06
1	13	MEUSE	NL	4,04	51,85	1	325,16
1	15	ADOUR	FR	-1,52	43,53	1	298,8
1	16	SHANNON	IE	-9,35	52,60	0	210,61
1	17	GUADALQUIVIR	ES	-6,36	36,79	1	206,79
1	19	GUADIANA	PT	-7,40	37,18	1	156,27
1	21	SEBOU	MA	-6,68	34,26	1	144,78
1	22	BARROW	IE	-6,96	52,24	0	128,98
1	23	MONDEGO	PT	-8,87	40,15	0	125,77
1	24	CORRIB	IE	-9,05	53,27	0	100,22
1	25	LOWER BANN	GB	-6,26	54,10	1	92,76
1	26	ERNE	IE	-8,26	54,51	0	85,31
1	28	THAMES	GB	0,52	51,50	1	81,56
1	31	SEVERN	GB	-2,70	51,56	1	77,62
1	32	VILAINE	FR	-2,44	47,50	1	71,7


Selected rivers inputs applied as a lateral open boundary condition. N: river number. CO: country code; lon/lat: river mouth exact position; Mth=1 for monthly climatological data else 0 (constant); Qmoy: Annual mean flowrate








IBI-ROOS River Data Catalog v 1.01



 = unchanged (GRDC archive info) or uncertain

 = updated only archive data info

 = updated only NRT data info

 = updated NRT and archive data info

