



Ifremer



DIVAA

DISPLAY INTERFACE FOR
VELOCITY AND ARGO DATA



Display Interface for Velocity And Argo data

- Data collection
Argo, Aviso, Andro



- Mapping
with JavaScript & leaflet



- Science data
using Erddap & HighCharts



DATA

Daily routine (shell scripts)



- Search in argo indexes for :
 - Float/Date/Position of the last day profiles
 - Float/Date/Position of the last 10 days profiles
 - Float/Date/Position of the last 30 days deep profiles



- AVISO geostrophic velocities :
 - Dataset for the last day
 - Mean velocities on 1993-2012 period (MDT)

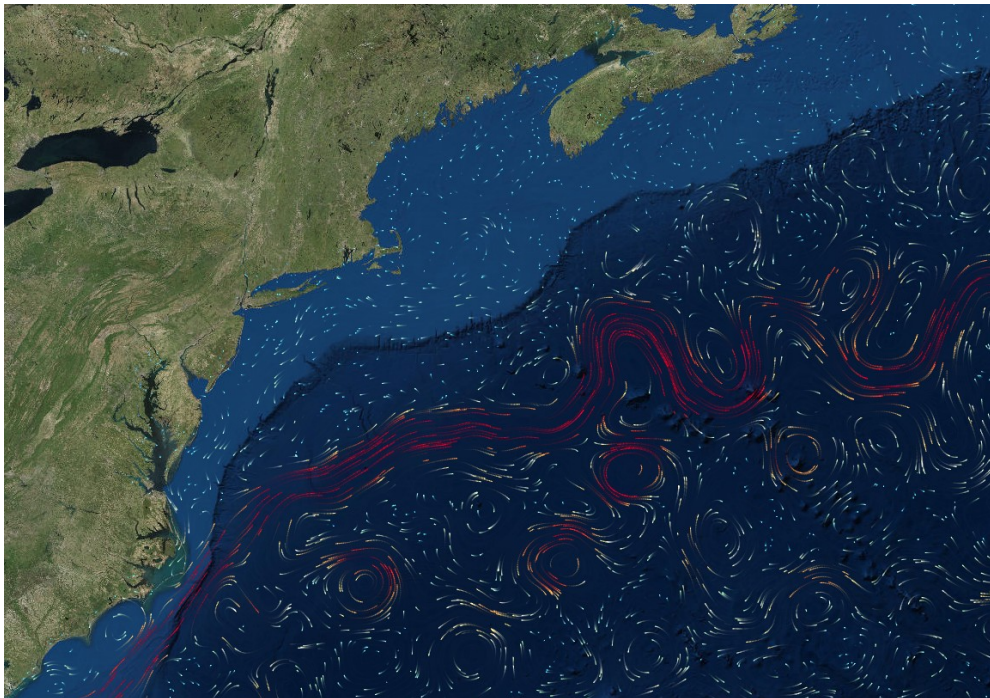


- ANDRO : An Argo-based deep displacement dataset
 - Mean velocities at 1000m deep

MAPPING



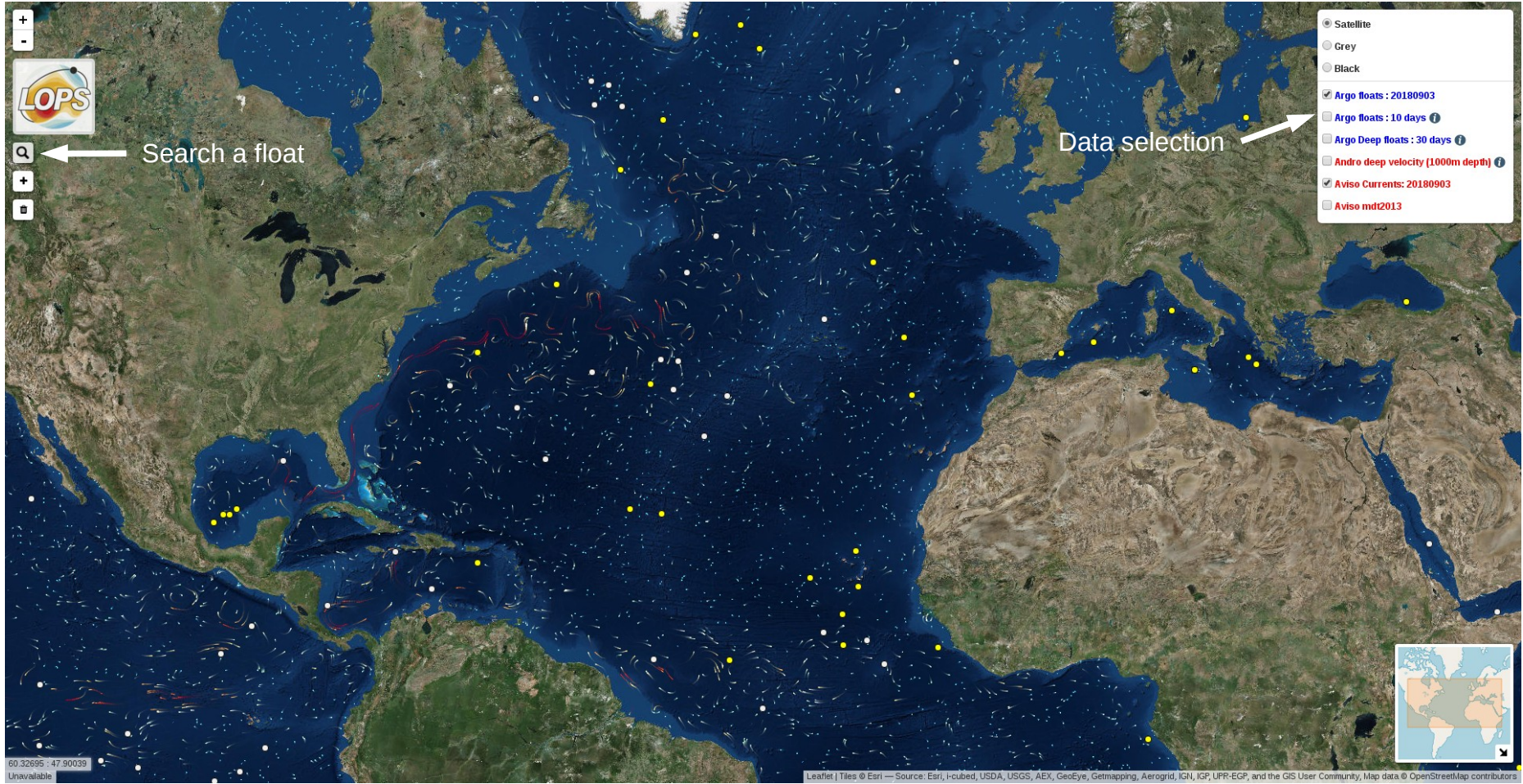
- Web application based on JavaScript mapping library « Leaflet » (leafletjs.com) : Easy to use, responsive, interactive, large community.



- « Leaflet velocity : A plugin for Leaflet to create a canvas visualisation layer for direction and intensity of arbitrary velocities (e.g. wind, ocean current). »

github.com/danwild/leaflet-velocity

--> Python script developed to convert our daily netCDF altimetry files to proper input json datasets.



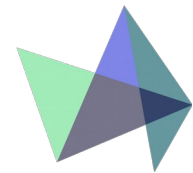
ARGO DATA

- Erddap server :
 - Data easily accessible with AJAX request. Here, the url is build from float/date/position daily collected.

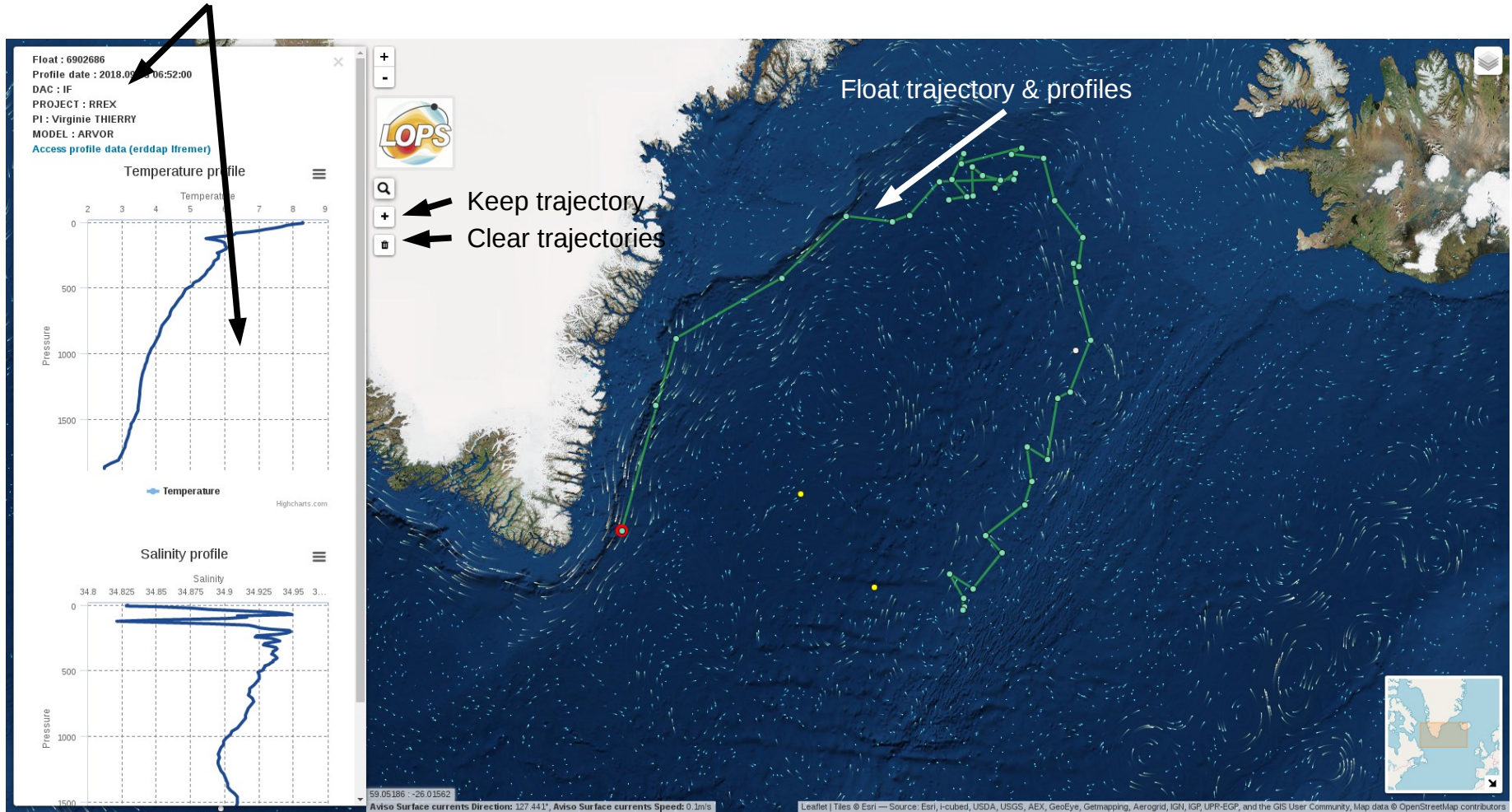
```
$.ajax({
  url:"http://www.ifremer.fr/erddap/taledap/ArgoFloats...",
  dataType: 'jsonp',
  jsonp: 'jsonp',
  cache: 'true',
  success: function (data) {
    //Do something with you data
  },
  type: 'GET'
});
```



- Access to all metadata (wmo, DAC, Project, PI, float model), data (P, T, S) & qc values.
- Large selection options available (on meta, data or qc)
- Large output format possibilities (csv, json, nc, matlab, ...)
- Possibility to request a graph (png, pdf, jpg, html, ...).
- Highcharts : « Interactive charts for your webpage »
Easy to use with javascript and json format, cool features, large community.



Some meta & some data



- Profile point click :
- Erddap request for historical profiles (also clickable to view data)
 - Erddap request for Meta infos
 - Erddap request for P,T,S data (plotted with HighCharts)

Online demo : map.argo-france.fr

Source code : github.com/quai20/DIVAA

