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1st CMEMS INSTAC Plenary Meeting

Task 4.5 : Training

C. Troupin, J. Tintoré & SOCIB team

Requirements

[REQ-GEN- 17]: training material dedicated to the current operational version of his products

Requirements

[REQ-GEN- 18]: presentations and a user-friendly animated tutorial

Requirements

[REQ-GEN- 19]: up-to-date material each year

Requirements

[REQ-GEN- 20]: appoint an expert to give one training year
Training modules : 2-3 hours
Notification: 2 months before session

Requirements

[REQ-GEN- 21]: trainer's name: $<$ 10 days after the notification

Requirements

[REQ-GEN- 22]: dedicated either to a region or to a marine/maritime issue

Requirements

[REQ-GEN- 23]: report 15 days after the training session

Next training session: early December

Region: Mediterranean Sea

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Expert: J. Tintoré

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Content: multi-platform observing systems, lack of in situ data, importance of Quality Flags, metadata, ...

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Region: Mediterranean Sea

Expert: J. Tintoré

Content: multi-platform observing systems, lack of in situ data, importance of Quality Flags, metadata, . . .

Material: ipython notebooks

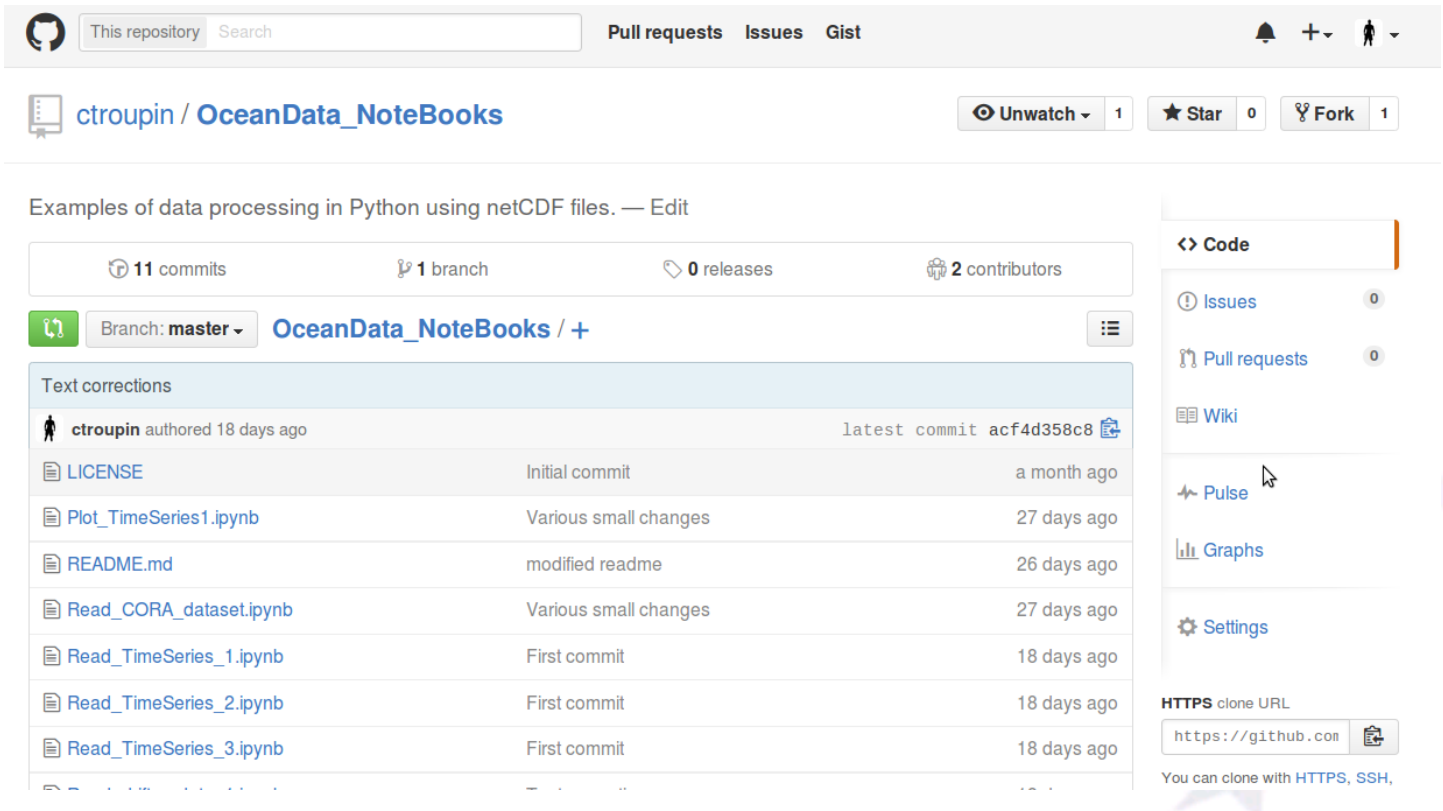
- reading netCDF files
- working on CORA dataset
- dealing with Quality Flags
- . . .

local file, OPeNDAP

Training material

ipython notebooks distributed in github

https://github.com/ctroupin/OceanData_NoteBooks



Why ipython notebooks?

IP[y]: IPython
Interactive Computing

- User-friendly

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IPython
Interactive Computing

- User-friendly
- Free, easy to write, easy to read

Why ipython notebooks?

IPython Interactive Computing

- User-friendly
- Free, easy to write, easy to read
- Code and results visible online via http://nbviewer.ipython.org

Why github ?

- Public access, easy to download

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- Collaborative development

Why github ?

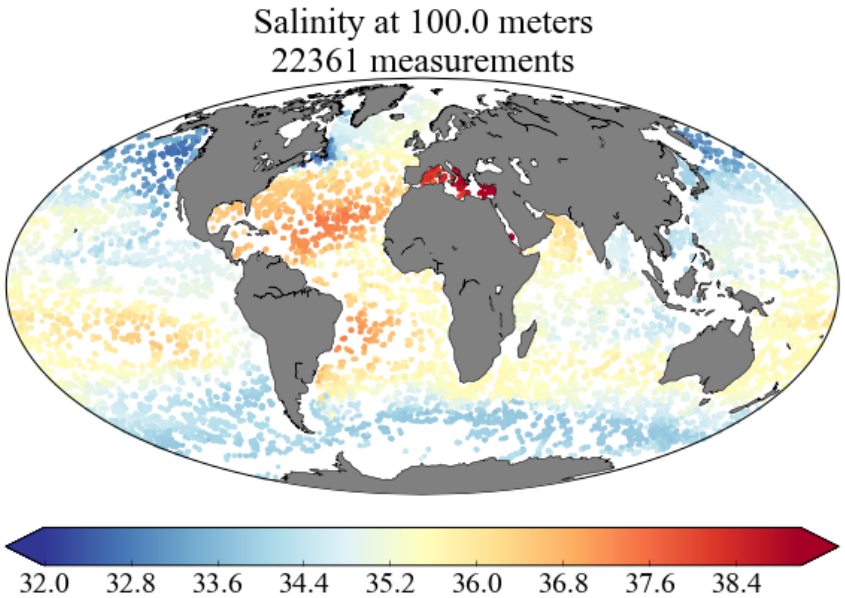
- Public access, easy to download
- Collaborative development
- Bug tracking, feature request, wikis, . . .

How does it looks like?

Finally, the colorbar will be placed below the map.

In [157]:
```
fig = plt.figure(figsize=(10,8))
m.scatter(lon_p, lat_p, s=10, c=salinity_atdepth_masked, edgecolor='None', cmap=cmap, norm=norm)
plt.colorbar(scat, extend='both', orientation='horizontal', pad=0.05)
m.fillcontinents(color='gray', lake_color='white')
m.drawcoastlines(linewidth=0.5)
plt.title('Salinity at ' + str(mydepth) + ' meters \n' + str(goodmeasurements) + ' measurements')

plt.show()
```



Even with this type of scatter plot, we can see interesting characteristics of the salinity field.

What's next?

1. Training course in early December

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2. Other regional leaders to be ready for next training sessions

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1. Training course in early December
2. Other regional leaders to be ready for next training sessions
3. Tailoring the training material