

OSUG



Observatoire des
Sciences de l'Univers
de Grenoble

Observatoire des Sciences de l'Univers de Grenoble



ISTerre
Institut
des Sciences
de la Terre



IPAG
Institut de Planétologie
et d'Astrophysique
de Grenoble



LTHE
Laboratoire d'études
des Transferts en
Hydrologie et Environnement



LGGE
Laboratoire de Géocologie
et Géophysique
de l'Environnement



LEGI
Laboratoire des
Ecoulements Géophysiques
et Industriels



LECA
Laboratoire
d'Ecologie
Alpine



IRSTEA
Centre
de
Grenoble

Oceanography in the future Grenoble Science Museum

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Fabrice Messal Mercator-Océan, Toulouse, France

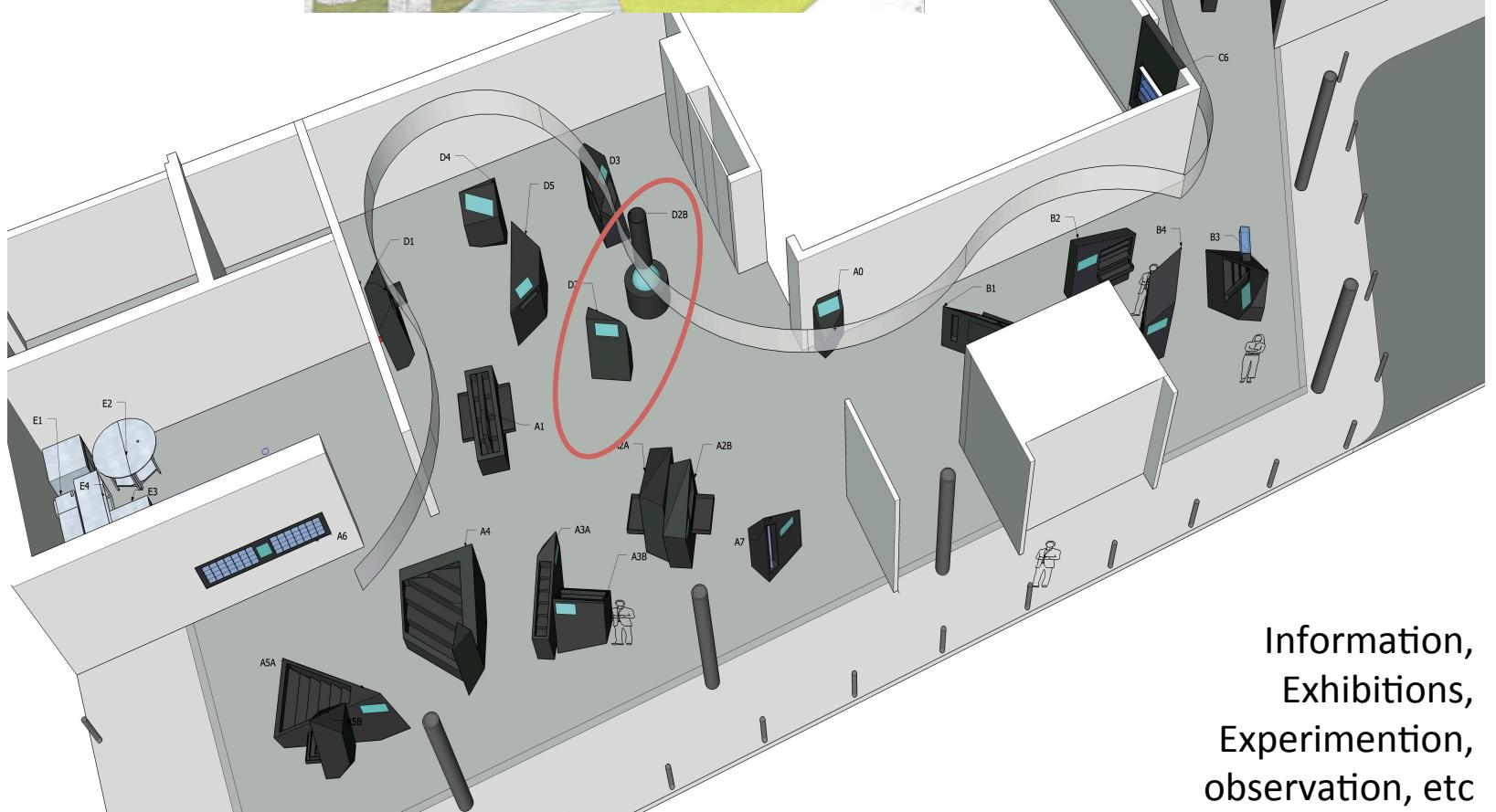


Observatoire des Sciences de l'Univers de Grenoble

Fall 2015: Science Museum (Maison Climat Planète)

300m² total
One « stand » per topic

Sedimentology
Fossils
Mineralogy
Earth origin
Internal Earth
Environment
Earthquakes
Tomograph
Planetology
Astrophysics
Climate
Oceanography
Glaciology
Tsunamis
...



Information,
Exhibitions,
Experimentation,
observation, etc

Oceanographic « stand »

interactive 24" screen 1

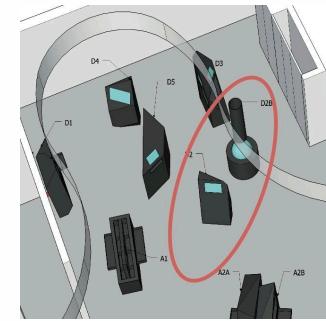
Oceanography in Grenoble

- Observations (**Satellites, altimeters**, in-situ)
- Modelling (currents, climate, etc)
- **Assimilation** (principle, exemples)
- Processes (**intrinsic variability**, turbulence, biogeochemistry)

interactive 24" screen 2

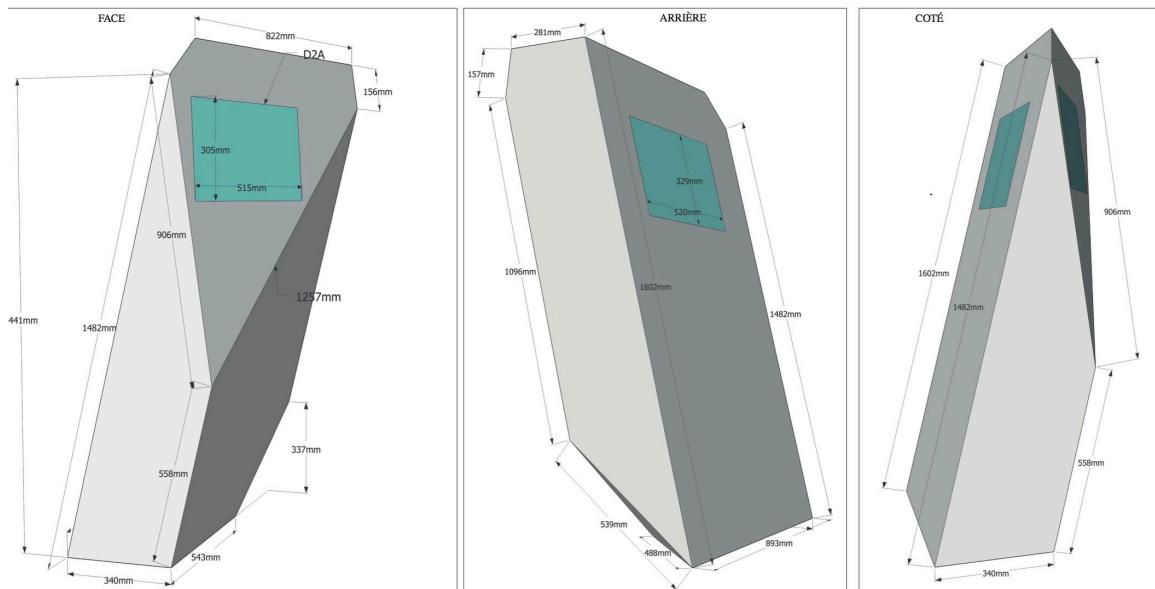
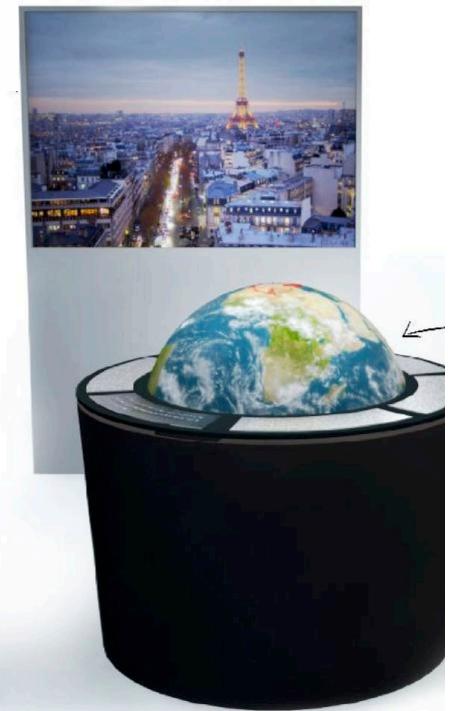
Ocean forecasting (w. Mercator)

- Principle
- Global forecasts (SSH, SST, sea-ice)
- French coasts forecasts ($U_{z=0}$, SLA, biogeochemistry, tides)

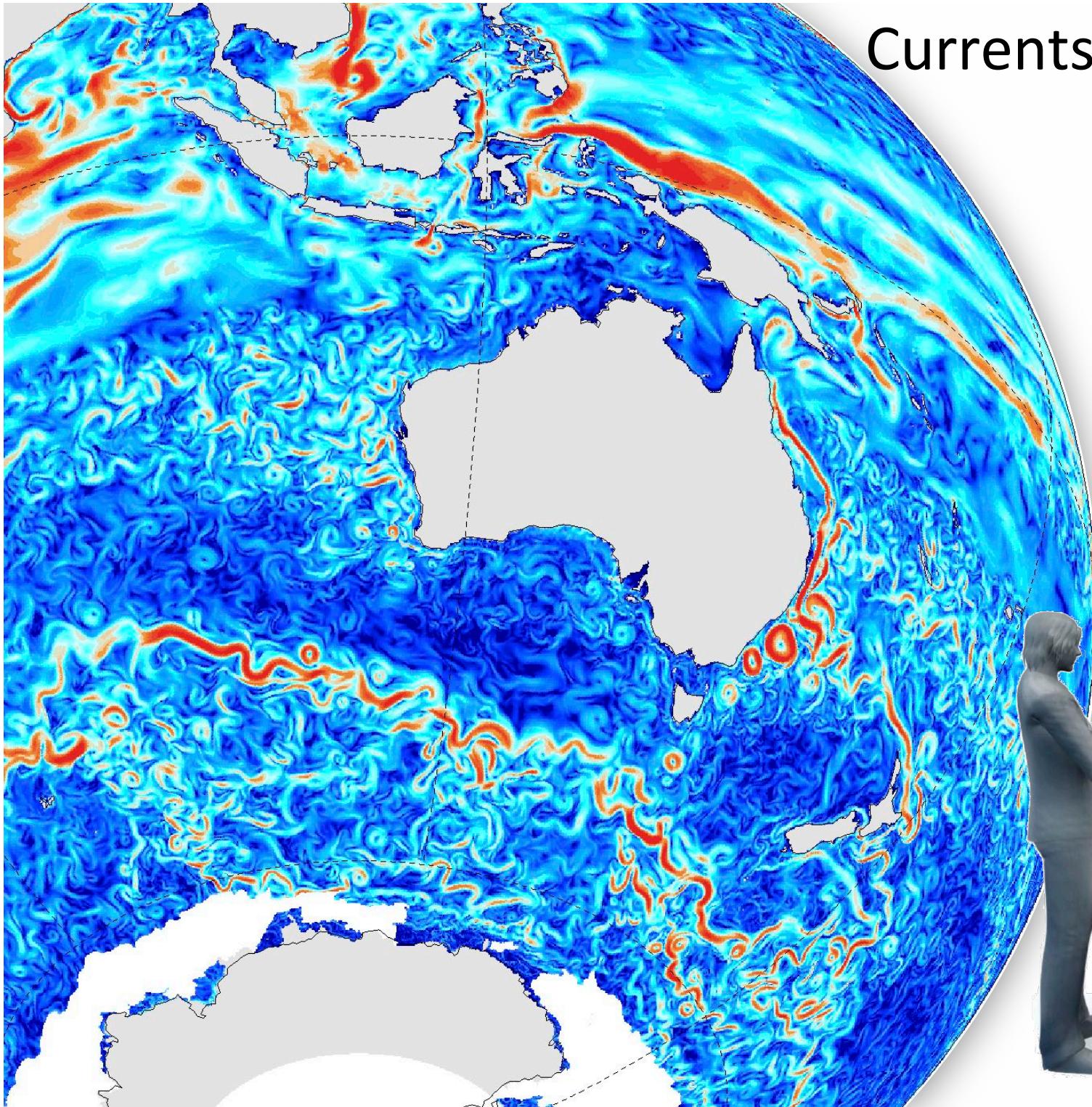


interactive video globe

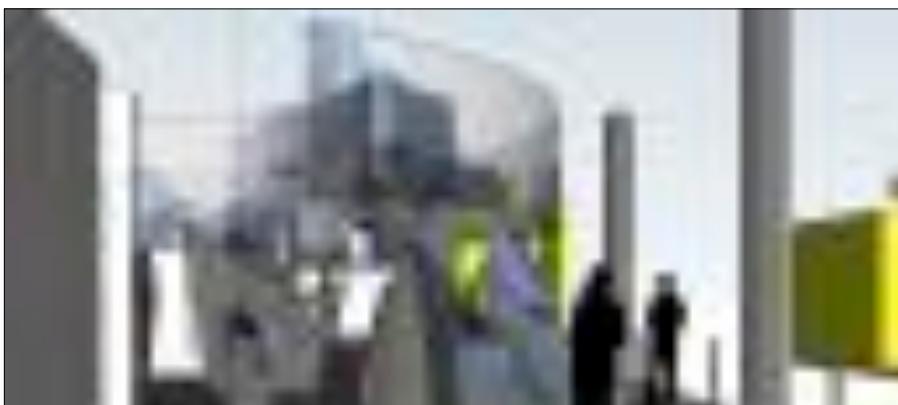
SSH, SST, deep flows, seasonal cycle, etc



Currents on the sphere



Thanks !



Esquisses