<table>
<thead>
<tr>
<th>Time</th>
<th>Sunday (8)</th>
<th>Monday (9)</th>
<th>Tuesday (10)</th>
<th>Wednesday (11)</th>
<th>Thursday (12)</th>
<th>Friday (13)</th>
<th>Saturday (14)</th>
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<tbody>
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<td>9:30</td>
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<td>10:30</td>
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<tr>
<td>10:30-11:00 Introduction</td>
<td>C. Schar (2)</td>
<td>Alexandre Stegner (1)</td>
<td>Miguel Potes</td>
<td>Rui Taborda (2)</td>
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<tr>
<td>11:00-12:00</td>
<td>Scott Giangrande (1)</td>
<td>Alexandre Stegner (2)</td>
<td>Jean-Baptiste Filippi (1)</td>
<td>Sierd Cloetingh (1)</td>
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<td>12:00-13:00</td>
<td>R. Ramalho</td>
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<td>13:00-14:00</td>
<td>Scott Giangrande (2)</td>
<td>Pedro Miranda</td>
<td>Jean-Baptiste Filippi (2)</td>
<td>Sierd Cloetingh (2)</td>
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<tr>
<td>14:00-15h</td>
<td>Julie Pullen (1)</td>
<td>Emanuel Dutra</td>
<td>Xavier Bertin (1)</td>
<td>João Duarte (1)</td>
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<tr>
<td>15-16h</td>
<td>Julie Pullen (2)</td>
<td>Joana Barcelos</td>
<td>Xavier Bertin (2)</td>
<td>João Duarte (2)</td>
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<tr>
<td>Coffee</td>
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<tr>
<td>16:20</td>
<td>Rui Caldeira</td>
<td>Rui Salgado</td>
<td>Rui Taborda (1)</td>
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<td>Campaign details</td>
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<td>17:20</td>
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Webpage: [http://idl.campus.ciencias.ulisboa.pt/training/]
● Alexandre Stegner: LMD, Ecole Polytechnique, France (astegner@lmd.polytechnique.fr)
  ○ Dynamics of oceanic eddies and their impacts on heat, salt and biogeochemical contents,

● Christoph Schär: ETH, Zurich (schaer@env.ethz.ch):
  ○ Introduction to Climate Change - Knowns and Unknowns, Climate Change - Towards High-Resolution Climate Modeling

● Emanuel Dutra: IDL, University of Lisbon, Portugal (endutra@fc.ul.pt):
  ○ Land-atmosphere interactions

● Jean-Baptiste Filippi: University of Corsica, France (filippi@univ-corse.fr):
  ○ Fires and the Atmosphere

● Joana Barcelos Ramos: IITAA University of Azores, Portugal (joana.b.ramos@uac.pt):
  ○ Carbon fluxes at the ocean surface

● João Duarte: IDL, University of Lisbon, Portugal (jdduarte@fc.ul.pt):
  ○ Tectonics of the Central Atlantic and the Azores-Gibraltar Plate Boundary

● Julie Pullen: Stevens Institute of Technology - USA (julie.pullen@stevens.edu):
  ○ Air-sea interactions

● Scott Giangrande: Brookhaven National Laboratory, USA (sgrande@bnl.gov):
  ○ Clouds

● Miguel Potes: University of Évora, Portugal (mpotes@uevora.pt):
  ○ Turbulent fluxes observations

● Pedro Miranda: IDL, University of Lisbon, Portugal (pmmiranda@fc.ul.pt):
  ○ Mountain waves

● Ricardo Ramalho: IDL, University of Lisbon, Portugal (raramalho@fc.ul.pt):
  ○ Field trip and The evolution of ocean island volcanoes on a slow-moving plate: the case of Madeira Island, NE Atlantic

● Rui Caldeira: ARDITI/IDL, Madeira, Portugal (rui.caldeira@oom.arditi.pt):
  ○ Island Wakes

● Rui Salgado: University of Évora, Portugal (rsal@uevora.pt):
  ○ Turbulent fluxes modeling

● Rui Taborda: University of Lisbon, Portugal (rtaborda@fc.ul.pt):
  ○ Sediments transport

● Sierd Cloetingh: Utrecht University, Netherlands (S.A.P.L.Cloetingh@uu.nl):
  ○ Lithosphere Tectonics and Sedimentary Basins: from the deep Earth to the Surface

● Xavier Bertin: La Rochelle University, France (xavier.bertin@univ-lr.fr):
  ○ Storm surges

Logistics
Arriving in Funchal
When arriving at in Funchal airport there is a shuttle to the city center fro 5€ (https://www.ana.pt/en/fnc/access-parking/getting-to-and-from-the-airport/public-transportation ). A taxi will be reasonably expensive (order of 50€).

Summer school:
The classes will be in Madeira Tecnopolio https://goo.gl/maps/cPtmenFvD3u (see this map for a list of hotels and venue)
There will be bus from city center to the summer course location in the morning and returning in the afternoon. On Sunday morning it will leave at 10am. From Monday to Thursday and Saturday the bus will leave at 9am and return at 17:30 all days except on Saturday at 14h.
Coffee break and lunch will be served at the venue.

Field trip (Sunday)
For the field trip on Sunday afternoon we recommend comfortable clothes and shoes, hat and maybe a rain coat (check the weather forecasts before), and maybe sunscreen. If anyone has binocoles please bring them to appreciate the views.

Boat Campaign (Friday)
The details of the boat campaign will be given during the course. It will be an entire day on the boat (lunch will be arranged).

Python training course (Saturday)
For the python training course we recommend that you bring your laptop, but it is not mandatory. In case you bring your laptop, we recommend you install the software package: “Python 3.6” of anaconda: https://www.anaconda.com/download/ (available for windows, mac, linux).

Contacts:
In case of any doubts or problem, please contact directly Emanuel or Miriam:
Emanuel Dutra (endutra@fc.ul.pt): +351 966733307
Miriam Jesus (miriam.jesus@oom.arditi.pt)    +351 964152083