Cruise proposal template

Text in blue are instructions and can be deleted before you submit the cruise proposal.

Upload your proposal and the accompanying JSON file before March 4 at 17:00.

Project Data

Title of the cruise proposal

Please choose an appropriate and concise title for the cruise that refers to the work area.

Acronym

Please choose a brief acronym (maximum 15 characters) derived from the title to identify your cruise proposal.

Cruise participants

Please provide a list of anticipated cruise participants, including student numbers.

Cruise Data

Cruise departure and arrival port; and transit days

Please name your preferred port of departure and one preferred port of arrival. Please enter the number of days required for transit from the preferred port of departure to the working area and the number of days required for transit from the working area to the preferred port of arrival, each rounded to the nearest whole number. Please note that transit times from the port of departure to the first station and from the last station in the working area to the port of arrival are not to be regarded as work days at sea, so they are not deducted from your three-week availability.

Cruise period

Please specify the preferred, year, season, month(s) and/or days from 01/11/2020 onwards. For the virtual ship these dates cannot be more than 2 days into the future.

Working areas / EEZs

Please indicate all nations from which research permits would need to be obtained on the basis of planned work in the respective Exclusive Economic Zones (EEZs). https://www.marineregions.org/eezmapper.php

Scientific data

Equipment needed

Please list both on-board and external equipment needed during the cruise. For the virtual cruise you can choose from:

- Underway data (measures near-surface temperature and salinity, S)
- ADCP data (measures zonal and meridional water velocity)
    - 300kHz seaSeven measuring up to 150m every 4 meters
    - 38kHz Ocean Observer measuring up to 1000m every 24 meters
- CTD casts (measures temperature, salinity and pressure)
- Surface drifter deployments (measures surface location and temperature)
- Argo floats deployments (measures surfacing location, temperature, salinity and pressure)

Map of working area

Please create a map of the working area indicating the port of departure and arrival, CTD casts and deployment stations.

Scientific work programme

In the template JSON file:

- Specify the region of interest. This will determine where your ADCP and Underway data collection starts.
- Specify the time period that you want to use the ship. Should be between *01/11/2020 00:00* and two days into the future.

- List your preferred cruise track as lists of lon-lat coordinates so it passes all the points and areas you want to measure. Please ensure that all drifter/float/CTD stations are included in the cruise track, and you stay within your designated three-week time frame.
- Indicate whether you want to collect ADCP and/or Underway data, with true or false.
- Give the ADCP settings: 1000 and 24 meters for the OceanObserver or 150 and 4 meters for the seaSeven
- Supply separate coordinate lists of CTD stations and surface drifter or Argo float deployment locations.
- Give the Argo settings (remember tutorial 2).

Information needed to complete your scientific programme is shared in a notebook that can be downloaded from Blackboard along with additional information on the measurement devices and examples of how to create a map, output lon-lat coordinates, and suggestions how to compute travel distance and query depth.

It might be helpful to create a timetable, with distances to be covered and a calculation of time needed to accomplish, as well as station time, such as the example below.

Activity	**Position**		**Depth / Distance**	**Est. time**	**Operations**
	Latitude (N)	**Longitude (W)**	**(m)/(nm)**	**(h)**	
Passage preferred Port of Departure – Station 1	Horta Start: 38.537 End: 37.930	Start: -28.626 End: -15.820	605nm	60	Training, setting up laboratory, underway measurements SST, nutrients
Station 1/Task 1	37.930	-15.820	4283m	2.5	CTD cast
Station 1/Task 2	37.930	-15.820	4283m	3	Multicorer cast
Transect 1	*Start*: 37.930 *End*: 35.770	*Start*: -15.820 *End*: -13.180	188nm	30.4	Multichannel seismics line
Etc.					

Source: https://www.eurofleets.eu/download/190906_EFPlus-SEA-Calls-Webinar.pdf