

## Mobile stations in ARES (SCC & EARLINET database) guidelines

All mobile stations must be set up as independent stations in the SCC and the EARLINET database.

### On the SCC:

- All the measurements for a mobile platform/system will be uploaded to the SCC under the same station ID.
- In the SCC interface, the box for “System is transportable” must be ticked for each of the lidar configurations used.
- The availability of Cloudnet model data for the various platform locations must be assessed.
- If a mobile system is set up in a new stable location:
  - a new SCC configuration will need to be created. This can be easily done by using the import/export tool.
  - the set of coordinates need to be modified via the SCC configuration file.
  - a new QA set should be submitted to CARS, and they will confirm/adjust the configuration as needed.
  - after moving a system to another location, two things can happen:
    - i) the transportation did not affect the instrument performance. This should be checked by the system PI by repeating the QA tests and checking the results are comparable with the last ones already approved by CARS. In that case the measurements at new location should be processed using a new configuration, which is the same as the last one approved except for the instrument coordinates. In this case, CARS will notify ARES about it, and ARES will create a new configuration by cloning the approved one, modifying the coordinates and locking it.
    - ii) the transportation affected the instrument performance. In this case, the instrument PI needs to ask CARS for the approval of a new configuration, which should be approved following the standard approval workflow (i.e. by submitting new QA tests).
- If a mobile system is set up in a moving platform (i.e. on a ship):
  - a new SCC configuration will need to be created. This can be easily done by using the import/export tool.
  - the set of coordinates need to be modified via the SCC configuration file according to the movement of the platform.
  - a new QA set should be submitted to CARS, and they will confirm/adjust the configuration as needed.

### On the EARLINET database:

- The data from the mobile platforms will be uploaded into the EARLINET database under the same station ID, even though the coordinates might change.
- When a mobile platform is moved, it will need to be indicated via email to [earlinetdb@actris.imaa.cnr.it](mailto:earlinetdb@actris.imaa.cnr.it), so that it can be tracked in the station locations history.
- In the platform/station name, it will be clear that it is a mobile station, and there will be a flag to indicate it like in the SCC.

- A different version of the quality control will be implemented so that the coordinate check will not be applied to these platforms.
- A new filter in <http://data.earlinet.org> will be created so that it is possible to find data filtering by a coordinate range.