BASICS

Sharing costs and value

- Loan of radar, software, PC and specific tools required for the duration of 2 years starting from spring 2022? (Probably a shorter time would be enough if the radar is operational, in case they need the radar for something else)
- Costs might be kept down for ISPAS if they give HIGHWAVE training on installing, operating and maintaining the radar in Norway
- Remote support, eventually technical inspection onsite
- Support in fixing eventual problems (damage of hardware due to storms etc.)
- Data samples from other stations are provided. If available data with different settings and from other instruments in the area -> better preparation, better algorithms
- Basic wave algorithms can be delivered when they have been tested on the provided data.
- If of interest, algorithms delivered with training on ocean waves and radar and ocean waves
- At the end of the project new algorithms could also be shared (???) / a new training workshop could be held
- ISPAS will be mentioned in all articles with the radar and we can dedicate a slide to the radar in talks that well be held

DETAILS

Hardware requirements
- Power supply
- Requirements for Software to run on

Software requirements
- What does the ISPAS software do so far (filtering, conversion,…)
- What programming language is used?

Storage of data
- Stored in Cartesian/Polar?
- Format used (possible to use HDF5?)
- What data should be stored in the research module
- Additional preprocessing possible to preselect data (low sea state, cameras non-functional, low SNR…)

Programming language/storage format
In the current stage all algorithms are provided in python. If parts of the program should become too slow with the elevated size of the data these parts could be rewritten in c and wrapped in python

Data is stored in HDF5 (with the python interface https://www.h5py.org).

HDF5 is supported for multiple languages and should work well as an interface.