



Royal Netherlands Institute for Sea Research

Specification SUMMARY of a Medium Depth AUV

1. Application and intended use

The AUV will be used to perform marine research in seas, oceans, fjords and possibly lakes. Deployments can vary between several hours up to 24 hours and preferably more. Underwater acoustic communication will allow near real time status, position, and progress updates, contact and the possibility to adapt the mission program underway.

2. Medium depth AUV with a depth rating of 2,000 m

We expect the AUV to have an outside diameter of approximately 32 cm. The dry weight (in air) of the AUV in its largest configuration will not exceed 500 kg. It will have a rechargeable lithium battery package. The AUV will be modular, sensors and instruments can easily be replaced, and new sensors can easily be placed and integrated.

The AUV will be equipped with a wide array of instruments and sensors.

3. Areas of operation

Typical areas of operation are: North Atlantic, Mid Atlantic, Labrador Sea, Mediterranean Sea and North Sea. Seawater temperature: -2°C to 32°C.