

# Risk and Reliability Modelling for Multi-Vehicle Marine Domains

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**Abstract**—It is well-known that autonomous underwater vehicle (AUV) missions are a challenging, high-risk robotics application. With many parallels to Mars rovers, AUV missions involve operating a vehicle in an inherently uncertain environment of which our prior knowledge is often sparse or low-resolution. The lack of an accurate prior, coupled with poor situational awareness and potentially significant sensor noise, presents substantial engineering challenges in navigation, localisation, state estimation and control. When constructing missions and operating AUVs, it is important to consider the risks involved. Stakeholders need to be reassured that risks of vehicle loss or damage have been minimised where possible, and scientists need to be confident that the mission is likely to produce sufficient high-quality data to meet the aims of the deployment. In this paper, we consider the challenges associated with risk analysis methods and representations for multi-vehicle missions, reviewing the relevant literature and proposing a methodology.

## I. INTRODUCTION

Traditionally, autonomous underwater vehicle (AUV) missions have consisted of a simple sequence of instructions, such as travelling between multiple waypoints, pre-defined by an operator to be within safe-working constraints [1], e.g. ensuring the vehicle maintains a safe distance from the sea floor. Consequently, previous applications of risk and reliability techniques to AUV operations has primarily focussed on attempting to quantify the general reliability of the physical vehicle and its component sub-systems, e.g. the propulsion or manoeuvring systems, through the use of mean-time between failures, fault-trees [2], [3] and expert elicitation [4].

In this paper, we present a review of existing risk and reliability techniques, both within the marine autonomy literature and other related fields. The suitability of each approach is evaluated in the context of our multi-vehicle application and we discuss our proposed risk and reliability methodology.

## II. MOTIVATING PROBLEM: MULTI-VEHICLE MARINE DOMAINS

Multi-vehicle mission formats are becoming increasingly popular for a variety of applications [5], [6]. Multiple AUVs can survey larger areas, whilst autonomous surface vessels (ASVs) may act as communication hubs or provide navigational updates for AUVs. Whilst some of the traditional challenges associated with AUV operations may be reduced by the

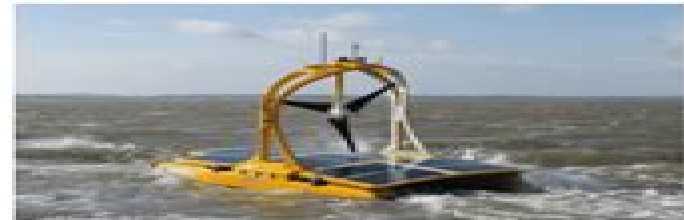


Fig. 1. C-Enduro [7] (Photo: Autonomous Surface Vehicles Ltd.)

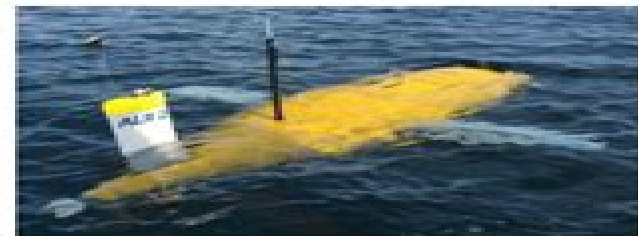


Fig. 2. Autosub Long-Range [8]

presence of a second vehicle, this multi-vehicle marine domain brings new behaviour requirements and thus risks, which need to be further analysed and mitigated where possible.

As part of an Innovate UK funded project (Autonomous Surface / Sub-surface Survey System - ASSS) [9] with industry partners<sup>1</sup>, we are researching the use of the C-Enduro [7] ASV (see Figure 1) as a navigation aid and communication link to the long-endurance AUV Autosub Long-Range (ALR) [8] (see Figure 2). As a long-endurance platform, ALR sacrifices power available to sensors to maximise vehicle range. Consequently,

<sup>1</sup>Autonomous Surface Vehicles Ltd, Sonardyne International Ltd and Sea-Byte Ltd.

# Risk And Reliability In Marine Technology



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