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# SEA SCIENCE

## SUPPLIERS OF METOCEAN SERVICES

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### CAPABILITY STATEMENT

#### PROFILE

SeaScience was initially called the Bergman Marine Science Consultancy (BMSC), and was founded in March 2004. It provides quality support to the Global Meteorological and Oceanographic (Metocean) Industry.

This Small Business Enterprise is solely owned and operated by Selwyn M. Bergman, a Historically Disadvantaged South African, who holds an MSc. qualification in Physical Oceanography as well as a certificate in Project Management. Selwyn also has vast experience in Software Development.

After gaining experience in the Metocean Industry, Selwyn decided to respond to the demands for alternative sources of Metocean Services.

As the number of service providers in this market decreased, he became a freelance consultant with a vision to become an established and progressive Small Business Enterprise, specialising in Metocean Services. This vision would be realised through joint ventures, acting as a consultant and contractor, and operating in support of other larger companies in the industry.

Realising that SeaScience's capabilities could be extended to offer greater flexibility to clients, partnerships with other qualified individuals were set up to enhance capabilities in related fields.



## **CAPABILITIES**

- **SOFTWARE DEVELOPMENT**
- **PROJECT MANAGEMENT ASSISTANCE**
- **METOCEAN RESEARCH**
- **DATA PROCESSING**
- **QUALITY ASSURANCE**
- **DATA ANALYSIS**
- **PRESENTATION AND REPORTING**

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## SOFTWARE DEVELOPMENT

By building on Selwyn's history of programming experience, as well as through appointed contract software developers, SeaScience is able to provide innovative and user-friendly software solutions to all Metocean operations.

Products include Software Processing Tools, Graphical User Interfaces, Database Access and Development Software, Display Software and Web-Based Applications. All software is client-focused, which maximises the usefulness of our products while minimising cost.

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## PROJECT MANAGEMENT ASSISTANCE

Increases in the rate of change in product design, production and marketing, combined with the increasing complexity of managerial processes have resulted in many organisations using a by-project management approach to maintain the flow of its business. Project Management is the application of the Theory of Project Management to projects for the purpose of maximizing the chance of a success.

Project managers therefore need to be able to plan, schedule, measure and control the activities that constitute a project. This often requires performing tasks related to planning, development, quality assurance, communications, human resources, risk analysis, procurement, etc.

With a full understanding of the Theory of Project Management, SeaScience is able to provide assistance to Project Managers in the satisfactory fulfilment of their role. This includes:

- Project Planning Assistance (setting of objectives, defining scope, identifying stakeholders, developing a task list and task schedule).
- Assistance in the developing of a Project-based Organisational Structure and WBS.
- Network Analysis.
- Resolving and Avoiding Conflicts.
- Strategic methods to manage resources.
- ... and many more.

Project Management is a crucial area of any organisation that sustains itself through the use of projects. Correct methods and up to date techniques that are based on the Theory of Project Management are therefore essential to the success of such organisations.

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## **METOCEAN RESEARCH**

SeaScience is able to research and report on the available literature for any part of the Metocean Environment using online and conventional resources. These reviews are done during the initial phases of any project, and serve to provide a guideline for operational criteria.

## **DATA PROCESSING**

SeaScience is capable of processing all forms of Metocean data by combining Oceanographic and Software Development skills. Accurate data processing is vital to all aspects of offshore operations, and SeaScience ensures that all data is processed in a correct and transparent manner that is acceptable to all stakeholders.

## **QUALITY ASSURANCE**

To avoid costly erratic decisions based on low quality data records, SeaScience offers a Quality Assurance program that is executed and reviewed by suitably qualified people.

By using a strict set of quality control tests and procedures, we provide Quality Assurance to all Metocean data. This ensures that the data meets the client-specific, and company-recommended quality standards.

## **DATA ANALYSES**

SeaScience offers technologically advanced and innovative data analysis in support of any Metocean Project. Various types scientific data analyses are available on request and include recommendations from qualified Oceanographers.

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## **P**RESENTATION AND **R**eporting

With a vast background in the presentation and reporting of Metocean Data, SeaScience ensures that all clients receive a correct and appropriate report which meets the requirements for which it is issued.