

Foreword

Welcome to “***Navigating Using Radar***”.

This publication has been carefully designed to introduce the recreational boater to the compact radar sets that are now becoming more and more common on smaller recreational vessels. In it you will find the more detailed information that is usually missing from the manuals and glossy brochures of the market place; however, this **is** an advanced course and is written especially for people who want to know how their radar set works. It assumes that the reader has some basic understanding, interest and real curiosity in how radio waves, and thus radar, works.

Radar was one of the technical marvels of the 20th century which has benefited from the electronic advances and miniaturisation of the computer age. This has allowed it, finally, to come within the financial and technical reaches of the recreational boater. You will find straightforward explanations of the internal magic which makes radar so effective as a navigation aid, and many suggested methods of extracting the maximum information from your equipment. The increased benefits of safe navigation using radar may surprise you.

The North Bay Power and Sail Squadron hopes you enjoy the experience!



Prior Knowledge Recommendations

Desirable Previous Knowledge and/or Experience.

“*Navigating using Radar*” is intended as an *advanced course* for owners and operators of radar equipped boats. While it is not intended to be too technical in its approach, it is simply not possible to present this subject without a fair amount of reference to some of the basic laws of physics.

It is strongly recommended that a prospective student should have:

- ✓ Taken Canadian Power Squadrons courses up to the *Advanced Piloting Course* level, or, *have an equivalent knowledge of marine navigation practices.*
- ✓ A comfortable understanding of basic electricity and how radio waves work.
- ✓ Had some exposure to and/or a basic understanding of a recreational marine radar, its controls and display.
- ✓ The curiosity to want to know how things work and the determination to demand good explanations!

Program Applicability Table

Is this course for you?

Type of boat-->	Sail	Power	Kayak/ Canoe	Fisher	Personal Water Craft
Where do you boat?					
Rivers and small lakes					
Large Lakes	V	V			
Coastal waters	VV	VV			
Open ocean sailing	VV	VV			

VV Most desirable, if not essential, for use in this environment.

V A useful navigation tool on these waters.

