

Preface

The IRIS programming interface gives you access to the radar, antenna, and signal processing hardware, as well as the IRIS menus and utility software. This means that you can expand the capabilities of IRIS for any special purpose your site may require. For example:

- Create special-purpose products.
- Write applications that accept data generated by IRIS.
- Write new interfaces to IRIS.

About This Manual

Chapter 1: Introduction to IRIS Programming

Tells you where to find the IRIS source code libraries within the directory structure, and lists the environment variables you need to define to compile and link IRIS code.

Chapter 2: User Product Insert

Shows how to define new IRIS products types, which can be accessed through the IRIS menus. This chapter contains an example program to help you get started.

Chapter 3: Data Formats

Describes the data formats generated by IRIS products and used by the IRIS menus and utilities. Any application that you write must be able to understand the format of the data generated by IRIS.

Appendix A: RCP

Describe the RCP transmit and receive formats.

Appendix B: Link Data Formats

Describes the data formats for link outputs to AWS and HKO.

Appendix C: UF Format

Describes IRIS's implementation of the UF (Universal Format).

Where to Find More Information

The following books are also available from SIGMET, Inc.:




<i>IRIS Installation Manual</i>	Describes the procedures for installing IRIS and the specific hardware and software configuration for your facility. It also provides system managers with information required for adding users and workstations. This manual is for system managers, operators and maintenance engineers.
<i>IRIS User's Manual</i>	Describes how to run the IRIS menus, an X-based interface to IRIS. This manual is for operators, observers, and remote display users.
<i>IRIS Utilities Manual</i>	Describes the utility programs for system alignment, calibration, installation and testing.
<i>The Signal Processor User's Manual</i>	Provides technical information on the signal processor (RVP6, or RVP7). This manual is used primarily by engineers for troubleshooting or by users interested in understanding the signal processing features, algorithms, processor control and data formats.
<i>The RCP02 User's Manual</i>	Describes the installation, operation, and technical details of the Radar Control Processor. The RCP02 is an interface between the IRIS software and miscellaneous hardware such as the antenna and transmitter.

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Documentation Conventions

The following conventions are used throughout this manual:

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|---|---|
| \$ | The dollar sign is used to show the operating |
| # | system prompt, the pound sign indicates the OS |
| | prompt for the root user. |
|  | This margin icon indicates a note that may be of |
| | interest to the reader. |
|  | This margin icon indicates a note that is important |
| | to the reader. |
|  | This margin icon indicates a caution or warning to |
| | the reader. |