

# Table of Contents

<b>Preface</b> .....	<b>v</b>
<b>1. Introduction to IRIS</b> .....	<b>1-1</b>
1.1 Types of IRIS Systems .....	1-2
1.2 IRIS Hardware .....	1-3
1.2.1 Workstation .....	1-3
1.2.2 Signal Processor .....	1-3
1.2.3 Radar Control Processor .....	1-3
1.2.4 Color Printer and Output File Formats .....	1-5
1.2.5 Tape Drive or DVD Storage .....	1-6
1.3 IRIS Architecture .....	1-7
1.4 IRIS Menus .....	1-11
1.4.1 Starting IRIS Client (Menus) .....	1-12
1.4.2 To exit from the IRIS menus .....	1-12
1.5 IRIS Quick Look Windows .....	1-14
1.6 Starting the IRIS Client/Server Model .....	1-15
1.6.1 Booting the Host Computer .....	1-15
1.6.2 Logging on to the Host Computer .....	1-15
1.6.3 Starting the IRIS Host .....	1-16
1.6.4 Shutting Down the IRIS Host .....	1-17
<b>2. Running IRIS Menus</b> .....	<b>2-1</b>
2.1 Customizing the List of Servers .....	2-2
2.2 Connecting and Disconnecting Servers .....	2-4
2.3 Moving Among the IRIS Menus .....	2-5
2.4 IRIS Menu Conventions .....	2-6
2.4.1 Menu Title .....	2-6
2.4.2 Common IRIS Menu Commands .....	2-6
2.4.3 Entering Information in Menus .....	2-7
2.5 The Tools Pull-Down .....	2-9
2.5.1 Using the Audio Setup .....	2-10
2.5.2 The IRIS Menu-bar Image .....	2-12
2.6 Help and the Manuals Menu .....	2-13
2.6.1 Moving Around in the Document .....	2-14
2.6.2 Searching for Information .....	2-15
2.6.3 Printing Online Documentation .....	2-15
2.6.4 Accessing Other SIGMET Online Books .....	2-15
2.6.5 Getting Additional Help on Adobe Acrobat Reader .....	2-15

<b>3. Using IRISnet</b>	<b>3-1</b>
3.1 Starting IRISnet	3-2
3.2 Interpreting IRISnet Status	3-3
3.3 Launching IRIS Applications from IRISnet	3-5
3.4 IRISnet Drawing Tools	3-9
3.5 IRISnet Options->Config	3-13
<b>4. Radar Status Menu</b>	<b>4-1</b>
4.1 Radar Status Menu	4-2
4.1.1 Control Section	4-3
4.1.2 Subsystem Status	4-8
4.1.3 Antenna/Transmitter Status	4-9
4.2 Running IRIS from the Radar Status Menu	4-11
4.3 Mode Switching in IRIS	4-12
4.3.1 Manual Mode Switching	4-12
4.3.2 RCP Mode Switching	4-12
4.3.3 Socket Mode Switching	4-12
4.3.4 Status Product Mode Switching	4-12
4.3.5 Automatic Mode Switching	4-12
4.3.6 Automatic Mode Switching Button	4-13
4.4 Switching IRIS Configurations Automatically	4-13
<b>5. Handling Errors</b>	<b>5-1</b>
5.1 IRIS Message Popup	5-2
5.2 Message List Menu	5-3
5.3 Fixing Common Problems	5-5
5.3.1 Making Display Windows Appear	5-5
<b>6. Configuring Radar TASKS</b>	<b>6-1</b>
6.1 TASK Configuration Menu	6-2
6.1.1 TASK Names and Descriptions	6-3
6.1.2 Antenna/Radar Control	6-4
6.1.3 Processor Configuration	6-8
6.1.4 Data Corrections	6-13
6.1.4 Data Quality Thresholding	6-15
6.2 Obtaining High Quality Data	6-20
6.2.1 Optimizing thresholds	6-20
6.2.2 Compromising samples, antenna speed and PRF	6-21
6.3 Exec Tasks	6-24

<b>7. Scheduling Radar TASKS .....</b>	<b>7-1</b>
7.1 TASK Scheduler Menu .....	7-2
7.2 Adding, Editing, and Removing TASKS in a Schedule .....	7-6
7.3 Running and Stopping a TASK .....	7-7
7.4 Scheduling Automatic TASKS .....	7-8
7.5 Scheduling and Running Manual Scans .....	7-10
7.6 Passive IRIS .....	7-11
<b>8. Products and Display at IRIS/Radar .....</b>	<b>8-1</b>
8.1 Configuring products .....	8-1
8.2 Scheduling products .....	8-2
8.3 Quick Look Window to view products .....	8-3
<b>A. Glossary of Terms and Abbreviations .....</b>	<b>A-1</b>
<b>B. Task Configuration Example .....</b>	<b>B-1</b>
B.1 Summary of Configuration Examples .....	B-2
B.2 Setting Up the Weather MONITOR Mode .....	B-4
<b>C. Passive IRIS Features .....</b>	<b>C-1</b>
C.1 Overview .....	C-1
C.2 Passive IRIS Configuration in setup .....	C-1
C.3 TASK Configuration, Scheduling and Synchronization .....	C-2
C.4 TS Playback using tsarchive .....	C-3
C.5 Testing Passive IRIS .....	C-4
<b>Index .....</b>	<b>Index-1</b>

## Figures

Figure 1-1:	Example of IRIS Configuration .....	1-4
Figure 1-2:	Schematic of Network IRIS Connections .....	1-5
Figure 1-3:	IRIS Processes .....	1-7
Figure 1-4:	IRIS Menus in the IRIS Architecture .....	1-13
Figure 1-5:	IRIS Display Window .....	1-14
Figure B-1:	SURVEILLANCE TASK Configuration .....	B-5
Figure B-2:	PPI_VOL TASK Configuration .....	B-6
Figure B-3:	RHI TASK Configuration .....	B-7
Figure B-4:	MONITOR TASK Schedule .....	B-8
Figure B-5:	MONITOR Mode Radar Status Menu .....	B-9

## Tables

Table 1-1:	Access to IRIS Menus .....	1-11
Table B-1:	MONITOR MENUS .....	B-2
Table B-2:	MONITOR TASKS .....	B-2
Table B-3:	MONITOR Products .....	B-2
Table B-4:	TD_RWY_09 Menu Configuration Names .....	B-3
Table B-5:	TD_RWY_09 TASKS .....	B-3
Table B-6:	TD_RWY_09 MONITOR Products .....	B-3