

Table of Contents

Preface	v
1. Introduction to IRIS	1-1
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 Optical 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	1-16
1.6.3 Starting the IRIS Host	1-16
1.6.4 Shutting Down the IRIS Host	1-17
2. Running IRIS Menus	2-1
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 Using the Audio Setup	2-9
2.6 Help and the Manuals Menu	2-12
2.6.1 Moving Around in the Document	2-13
2.6.2 Searching for Information	2-14
2.6.3 Printing Online Documentation	2-14
2.6.4 Accessing Other SIGMET Online Books	2-14
2.6.5 Getting Additional Help on Adobe Acrobat Reader	2-14

3. Using IRISnet	3-1
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
4. Radar Status Menu	4-1
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	4-12
4.3 Mode Switching in IRIS	4-13
4.3.1 Manual Mode Switching	4-13
4.3.2 RCP Mode Switching	4-13
4.3.3 Socket Mode Switching	4-13
4.3.4 Status Product Mode Switching	4-13
4.3.5 Automatic Mode Switching	4-13
4.3.6 Automatic Mode Switching Button	4-14
4.4 Switching IRIS Configurations Automatically	4-14
5. Handling Errors	5-1
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
6. Configuring Radar TASKS	6-1
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
6.1.5 Data Quality Thresholding	6-15
6.2 Obtaining High Quality Data	6-18
6.2.1 Optimizing thresholds	6-18
6.2.2 Compromising samples, antenna speed and PRF	6-19
6.3 Exec Tasks	6-22
7. Scheduling Radar TASKS	7-1
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
8.	Real Time Display	8-1
8.1	Real Time Display Menu Features	8-2
8.2	Configuring the Real Time Display Transmitter	8-8
9.	Products and Displays at IRIS Radar	9-1
9.1	Configuring products	9-1
9.2	Scheduling products	9-2
9.3	Quick Look Window to view products	9-3
A.	Glossary of Terms and Abbreviations	A-1
B.	Task Configuration Example	B-1
B.1	Summary of Configuration Examples	B-2
B.2	Setting Up the Weather MONITOR Mode	B-4
C.	Passive IRIS Features	C-1
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
Index	Index-1

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