



THE REPUBLIC OF SUDAN
SUDAN CIVIL AVIATION AUTHORITY
(SCAA)

SUCAR PART 4
AERONAUTICAL CHARTS
SCAA

September 2011



**THE REPUBLIC OF SUDAN
SUDAN CIVIL AVIATION AUTHORITY
(SCAA)**



**Sudan Civil Aviation Regulation
SUCAR PART 4
Aeronautical Charts**

SUCAR Part 4 – *Aeronautical Charts* has been promulgated pursuant to Article 33 of the Civil Aviation Act, 2010 and issued under my consent as is required by the Act.

The SUCAR fully complies with the requirements of Annex 4 – *Aeronautical Charts* to the Convention on International Civil Aviation; and, supported by Directives, Orders and Procedures that may be published, from time-to-time, by the Board of Directors of Civil Aviation and/or the Director General of Civil Aviation, as required by law, constitute the Aeronautical Chart Standards of the Republic of Sudan.

Dr. Mohamed Elmuktar Hassan
Minister of Cabinet Affairs
Khartoum, 20 October 2011





TABLE OF CONTENTS

TABLE OF AMENDMENTS.....	IV
TABLE OF CONTENTS	V
FOREWORD.....	1
- Legal Backgroun	
- Layout of SUCAR Documents	
- Rules of Construction	
- Amendment of Procedures	
CHAPTER 1	5
Definitions, applicability and availability	
- Definitions .	
- Applicability	
- Availability	
CHAPTER 2.....	14
General specifications	
- Operational requirements for charts	
- Titles	
- Miscellaneous information.	
- Symbols	
- Units of measurement	
- Scale and projection.	
- Date of validity of aeronautical information .	
- Spelling of geographical names	
- Abbreviations	
- Political boundaries	
- Colours	
- Relief	
- Prohibited, restricted and danger areas	
- Air traffic services airspaces	
- Magnetic variation	
- Typography	
- Aeronautical data	
- Common reference systems	
CHAPTER 3.....	20
Aerodrome Obstacle Chart — ICAO Type A (Operating Limitations).	
- Function	
- Availability	
- Units of measurement	
- Coverage and scale	
- Format	
- Identification	
- Magnetic variation	



- Aeronautical data
- Accuracy.

CHAPTER 4.....24
Aerodrome Obstacle Chart — ICAO Type B

- Function
- Availability
- Units of measurement
- Coverage and scale
- Format
- Identification
- Culture and topography
- Magnetic variation
- Aeronautical data
- Accuracy

CHAPTER 5.....27
Aerodrome Obstacle Chart — ICAO Type C

- Function.
- Availability
- Coverage and scale
- Format
- Identification
- Magnetic variation
- Units of measurement.
- Aeronautical data
- Accuracy

CHAPTER 6.....30
Precision Approach Terrain Chart — ICAO.

Function

- Availability
- Scale
- Identification
- Plan and profile information

CHAPTER 7.....31
Enroute Chart — ICAO

Function.

- Availability
- Coverage and scale
- Projection
- Culture and topography
- Magnetic variation
- Bearings, tracks and radials
- Aeronautical data



CHAPTER 8.....34
Area Chart — ICAO

- Function.
- Availability
- Coverage and scale
- Projection
- Identification
- Culture and topography
- Magnetic variation
- Bearings, tracks and radials
- Aeronautical data

CHAPTER 9.....37
Standard Departure Chart — Instrument (SID) — ICAO

- Function
- Availability .
- Coverage and scale
- Projection
- Identification
- Culture and topography
- Magnetic variation
- Bearings, tracks and radials
- Aeronautical data

CHAPTER 10.....41
Standard Arrival Chart — Instrument (STAR) — ICAO

- Function
- Availability
- Coverage and scale
- Projection
- Identification
- Culture and topography
- Magnetic variation
- Bearings, tracks and radials
- Aeronautical data

CHAPTER 11.....45
Instrument Approach Chart —ICAO .

- Function
- Availability
- Coverage and scale
- Format
- Projection
- Identification
- Culture and topography
- Magnetic variation
- Bearings, tracks and radials



- Aeronautical data	
CHAPTER 12.....	52
Visual Approach Chart — ICAO.	
- Function	
- Availability	
- Scale	
- Format	
- Projection	
- Identification	
- Culture and topography	
- Magnetic variation	
- Bearings, tracks and radials	
- Aeronautical data	
CHAPTER 13.....	54
Aerodrome/Heliport Chart — ICAO	
- Function.	
- Availability	
- Coverage and scale	
- Identification	
- Magnetic variation .	
- Aerodrome/heliport data	
CHAPTER 14.....	57
Aerodrome Ground Movement Chart — ICAO	
- Function.	
- Availability	
- Coverage and scale	
- Identification	
- Magnetic variation	
- Aerodrome data.	
CHAPTER 15.....	59
Aircraft Parking/Docking Chart — ICAO.	
- Function.	
- Availability	
- Coverage and scale	
- Identification	
- Magnetic variation	
- Aerodrome data	
CHAPTER 16.....	60
World Aeronautical Chart — ICAO 1:1 000 000 .	
- Function.	
- Availability	
- Scales	



- Format
- Projection
- Identification
- Culture and topography
- Magnetic variation
- Aeronautical data

CHAPTER 17.....66

Aeronautical Chart — ICAO 1:500 000.

- Function
- Availability
- Scales
- Format
- Projection
- Identification
- Culture and topography
- Magnetic variation
- Aeronautical data

CHAPTER 18.....71

Aeronautical Navigation Chart — ICAO Small Scale

- Function
- Availability
- Coverage and scale
- Format
- Projection
- Culture and topography
- Magnetic variation
- Aeronautical data

CHAPTER 19.....75

Plotting Chart — ICAO

- Function
- Availability
- Coverage and scale
- Format
- Projection
- Culture and topography .
- Magnetic variation
- Aeronautical data

CHAPTER 20.....77

Electronic Aeronautical Chart Display — ICAO

- Function
- Information available for display
- Display requirements
- Provision and updating of data
- Performance tests, malfunction alarms and indications



- Back-up arrangements

CHAPTER 21.....79

Radar Minimum Altitude Chart — ICAO

- Function
- Availability
- Coverage and scale
- Projection
- Identification .
- Culture and topography
- Magnetic variation
- Bearings, tracks and radials
- Aeronautical data

APPENDICES.....82

APPENDIX 1 Marginal note layout

APPENDIX 2 ICAO chart symbols

APPENDIX 3 Colour guide .

APPENDIX 4 Hypsometric tint guide

APPENDIX 5 Sheet layout index for the World Aeronautical Chart —ICAO 1:1 000 00

APPENDIX 6 Aeronautical data quality Requirements