

Contents

- 1 Introduction
- 2 Aims & Objectives/Programme of Work
- 3 Getting Started
 - 3.1 Safety
 - 3.2 Observing the Sun with the Naked Eye
 - 3.3 Using Binoculars
 - 3.4 Using a Telescope
 - 3.5 Projection
 - 3.6 Filters
- 4 Counting Sunspots & Active Areas
 - 4.1 What is a Sunspot?
 - 4.2 Making an Observation
 - 4.3 Recording an Observation
 - 4.4 Seeing Conditions
- 5 Solar Co-ordinates & How to Find Sunspot Positions
 - 5.1 Orientating the Solar Disk
 - 5.2 Solar Co-ordinates
 - 5.3 Carrington Rotation Numbers
 - 5.4 Quality Number
- 6 Hydrogen Alpha Observing
 - 6.1 What is a Hydrogen Alpha Filter?
 - 6.2 Prominence Viewers
 - 6.3 Sub-Angstrom Filters
 - 6.4 Seeing Conditions
 - 6.5 Orientation of the Solar Image
 - 6.6 Prominence Counts

- 6.7 Prominence Shapes
- 6.8 How to Draw a Prominence
- 6.9 Filaments
- 6.10 Plage
- 6.11 Flares
- 7 Drawing & Sketching
 - 7.1 Sketching H-Alpha Features by Erika Rix
 - 7.2 Sketching & Using Photoshop by Stephen Ames
- 8 Solar Imaging
 - 8.1 Imaging in White Light by Dave Tyler
 - 8.2 Imaging in H-Alpha Light by Dave Tyler
- 9 Software – Helio Programmes by Peter Meadows
- 10 Photographing the Sun
 - 10.1 Camera & Lens Only
 - 10.2 Camera & Telescope
 - 10.3 Camera, Telescope & Eyepiece
 - 10.4 Exposure Times
- 11 Radio Monitoring by John Cook
 - 11.1 VLF Monitoring for Solar Flares
 - 11.2 Direct Radio Observations
- 12 Solar Eclipses
 - 12.1 Partial
 - 12.2 Total
 - 12.3 Annular
- 13 Section Forms
 - 13.1 White Light Observations – Monthly Report
 - 13.2 H-Alpha Observations – Monthly Report

13.3 Annual White Light Report

13.4 Daily Disk Drawing Blank

13.5 Drawing Screen Grid

14 Links

15 Acknowledgments