



Shallow Sky Section

Summarised Annual Report 2019- 2020

Introduction

This summary report covers the period from July 2019-July 2020 and will only highlight the most significant aspects of the year. A more comprehensive report will be circulated for inclusion in MNASSA.

Asteroids and Comets

At time of report writing, awaiting feedback on any activity.

Meteors/Meteorites

Tim Cooper continues to do excellent, professional level work in this field.

Fireballs: Investigated 27 Fireball reports as part of the South African Fireball Challenge. All reports summarised and published in MNASSA

He also observed/reported on a number of the main meteor showers.

CAM@SA, part of the global cameras for all-sky meteor surveillance (NASA SETI), has completed its first full year of operation.

Satellites

No feedback at this stage

Planetary work

The author has continued his comprehensive planetary imaging work on Mars, Jupiter and Saturn.

A number of the highlights from the year:

- a) Presentation on the 2019 GRS Flaring events at EPSC 2019 in Geneva.
- b) Completion of comprehensive report on the intensive coverage of the exciting developments around Jupiter's Great Red Spot and the associated flaring activity. Published in the BAA Jupiter website and also to be published in MNASSA.
- c) The detection of a relatively rare STB outbreak on Jupiter, which would become known as Clyde's Spot. With detailed images being obtained by the Juno spacecraft only two days after detection, the feature experienced significant media interest.
- d) Interaction with, and support of a number of developing planetary imagers.
- e) Ongoing Pro-Am interaction and collaboration with various international professional planetary astronomers and scientists.
- f) Included as co-author in a number of international presentations and articles.

Clyde Foster

Director: Shallow Sky Section

August 2018