

I. PHYSICS

Astrophysics (Time of Contact)

CONTACT TIMES

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OBSERVATIONS of contact times were undertaken both on northern limit and central line to obtain the relative position of the moon to the sun by spectrophotometry of flash spectra. The experiments were successful at the central site, but failed at the northern site by cloud.

Keywords : Contact Time; Spectrophotometry of Flash Spectra; Shin Cloud.

EXPERIMENT

(i) Flash spectra were taken around the second and the third contacts using a 16mm movie-camera attached to a spectrographic telescope whose aperture is 80mm, focal length : 1200mm, inverse dispersion : 73A/mm, solar region : 4600–5200, and the resolution of time is 18 frame per second.

Photographic images are partially affected by shin cloud, but fairly good for contact problems.

(ii) Positioning of the site was made by means of NNSS.

LOCATION

Central : San Marco Project, CRA of University of Rome, Malindi, Kenya.

Northern : Tarassa Secondary School, South Tana River District, Kenya.

REFERENCES

- Mori T., and Kubo, Y. (1971). Observation of the 1970 Mexico solar eclipse. Report of Hydrographic Researches, No. 7.
- (1976) The relative position of the moon to the sun at the 1970 Marc 7 eclipse. Report of Hydrographic Researches, No. 11.
- Mori T., and Ganeko, Y. (1976). Observation of the 1973 solar eclipse in Mauritania. Report of Hydrographic Researches, No. 11.