Mirador Observes Eclipse On Schedule

Observers at Mirador witnessed and the earth there is a solar events.

moon had set in the China Sea be- the opopsite direction and so the fore the total phase of the eclipse moon is full. was reached. But when the moon A lunar eclipse takes place bewas last seen, a fair estimate rated cause the moon passes through the the part of the moon not yet en- earth's shadow. Because the sun gulfed by the earth's shadow as is a large area rather than a point approximately ten percent.

nessey, S.J., Director of the Manila penumbra and the umbra. When Observatory at Mirador, both solar the moon is in the penumbra, and lunar eclipses involve the light from a part of the sun's surthree bodies: the sun, the earth face is cut off by the earth but at and the moon. The earth and the umbra the moon, in the geometric moon are opaque and non-luminous shadow of the earth, might be exobjects. The moon is seen by the pected to be cut off entirely from light of the sun reflected from the sunlight. However, even at totality, moon's surface. When the moon when the moon is within the umcomes directly between the sun (Continued on page 2)

the lunar eclipse in the early eclipse. When the earth comes morning hours of Tuesday, May 14. between the sun and the moon we It occurred exactly in accordance speak of a lunar eclipse. In an with the predicted schedule of eclipse of the sun the moon is away from the earth in the direction of At no time was the totality of the sun so it must be at new moon. the eclipse visible in Baguio. The In a lunar eclipse the moon is in

of illumination, parts of the According to Father J. J. Hen- shadow are referred to as the

Mirador Observes...

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bra, it can still be seen faintly as moon as a clock, to an observer at a copper-red object. This is due Baguio, the apparent entrance of sun's rays in the earth's atmos- at about 10:30 position. The shaphere. This causes the rays to dow moved across the face of the

in a calendar year. However, there moon-set came first at 5:30. may be none, or one, or two. The same plane as the orbit of the moon. This accounts for veriety in lunar eclipses.

It may seem strange that solar eclipses are more frequent than lunar eclipses. But for any one position on the earth, lunar eclipses vastly exceed, in number, solar eclipses. The reason for this difference is based on the follow- ler, S.J., the Observatory astronoing fact: a solar eclipse is visible mer. only on a very restricted part of the earth while a lunar eclipse can tial eclipse. Observers at other be seen from at least a hemisphere locations, not in the Philippines, at one occurrence. Because a lunar could have watched the moon in eclipse may last as much as three total eclipse for an hour and hours and forty minutes from the eighteen minutes. The interval of time of first contact with the umbra until the last contact, the bra was very favorable being more eclipse is visible in some partial than three hours and a half.

There was a very slight darkening eclipse. This should afford Philipof the moonlight. At 4:45 the um- pine observers with an opportunity bra appeared to start its engulfing to see a lunar eclipse in all its of the moon. If we consider the phases.

to the bending or refraction of the the shadow was on the clock face curve into the shadow with the sun indicating the round curvature longer red colors more in evidence. of the earth. Totality of the ec-There can be three lunar eclipses lipse was scheduled for 5:52 but

As the moon was setting the sun orbit of the earth is not in the was rising. The setting moon was giving less light due to the eclipse, while the sun at dawn was brightening the sky with its fingers of light. The high mountains to the east of Baguio delayed the apparent sunrise for about five minutes.

> During the eclipse, photographs were taken by Father Richard Mil-

> Baguio experienced only a par-

stage to more than half the earth. After six months, November 7, At Baguio the moon began to 1957, when the moon is full again enter the penumbra at 3:42 a.m. there will be another total lunar