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Prairie Astronomy Assn December 1966

Earl Moser Pres, Ricky Johnson Tres, Jess Williams Sec,y.

The Presidents Report.

A grazing Occ,occured on Dec 18th at 6.45 P.M Local time. This was one of the best planned and attended occultations observed that our club has participated in. About ten or so members gathered at my place on the afternoon of the event . After locating our viewing spot on the survey map we had lunch and then departed for the site,about 2 1/2 mi south of firth.We had all the Equipment Neccessary. Rick Johnson brought his new 10in F8 ,a tape recorder and short-wave radio to pick up time signals on W W V. Terry and Scott brought their Six Inch scopes and I had my 8in and the 2.4 refractor. But the best laid plans of mice and men ets----- Wouldnt you know after a week of clear warm dry weather----- that those clouds would have to move in.We could see the Moon through the clouds but not the Star,not even in the 10 inch.

Well,we plan another one on Dec 31st at 3 AM. This will be a third Mag that failed to show through the clouds on Dec 18. This graze will be a little closer to home.About one half mile south of my place.I will be out there. Hope to see some of you there also
Earl Moser Pres.

Our next meeting will be Dec 27th.Tuesday Night 7.30 P M -- Nebr Wesleyan Science Building.

The Program will be a good one. Monte Cole will give a report on Astronomical Facts,from a 1919 Copyrighted Encyclopedia. A Film If Possible. Were are going to Sell those Lenses that Felix Cavosie Gave To The Club. There,s a lot of them so come prepared to take some of them home. The selling price will be low,and the money will go into our treasury.

Have a good Christmas and I hope everyone finds two or more Good Eyepieces,or whatever you been needin,in your ssock.-- (Sook I mean)

A groupe of us got together a week or so ago,and demonstrated our scopes,to some of Prof,Carroll Moore,s Students. It was very nice of you boys to turn out. Next year we should do it earlier in the month,or Sooner still,so that anyone wishing to order a telescope would get ahead of the Christmas Rush.

So, Meeting Dec 27th. You know Where,and The Time. Refreshments.

Happy Holidays.
Jess Williams

MATH & ASTRONOMY

Density of the earth

Let M_e = mass of the earth, which was found last month - $5.88 (10)^{24}$ kg which is equal to $5.88 (10)^{27}$ gm

Let V_e = the earth's volume

$$V_e = \frac{4}{3} \pi r^3$$

$$V_e = \frac{4}{3} (3.14) (6.4 \times 10^6 \text{ m})^3$$

$$V_e = \frac{4}{3} (3.14) (2.7) (10)^{20} \text{ m}^3$$

$$V_e = 1.13 (10)^{21} \text{ m}^3$$

$$V_e = [1.13 (10)^{21} \text{ m}^3] [10^6 \frac{\text{cm}^3}{\text{m}^3}]$$

$$V_e = 1.13 (10)^{27} \text{ cm}^3$$

now:

$$\text{Density} = \frac{M_e}{V_e}$$

$$\text{Density} = \frac{5.88 (10)^{27} \text{ gm}}{1.13 (10)^{27} \text{ cm}^3}$$

$$\text{Density} = 5.22 \text{ gm/cm}^3$$

since water's density is 1 gm/cm^3 , the earth is 5.22 times as dense as water

value given in books - 5.52

NEWSLETTER

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