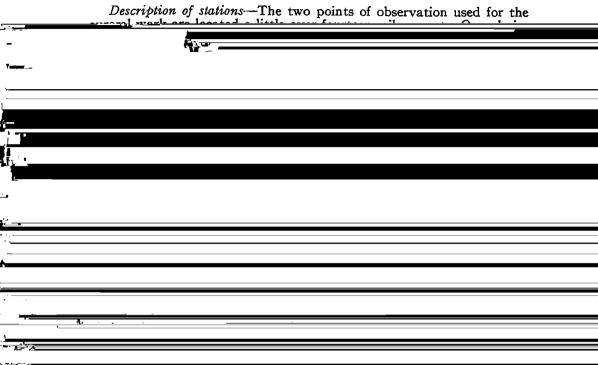
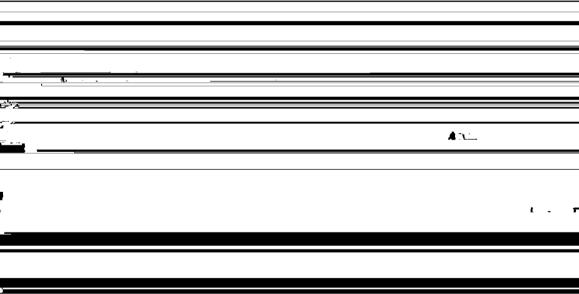
AURORAL OBSERVATIONS AT THE ALASKA AGRICULTURAL COLLEGE AND SCHOOL OF MINES, 1930-31¹

By VERYL FULLER





measuring parallax. Since the cameras are not intended to be leveled accurately when used for taking auroral pictures no leveling device was incorporated in them and for this reason the level used with the vertical

vertical rotation o f the camera.

Figure 2 shows clearly the construction of the camera and also the view-finder on the upper left corner, the horizontal circle, and the vertical circle with its level.

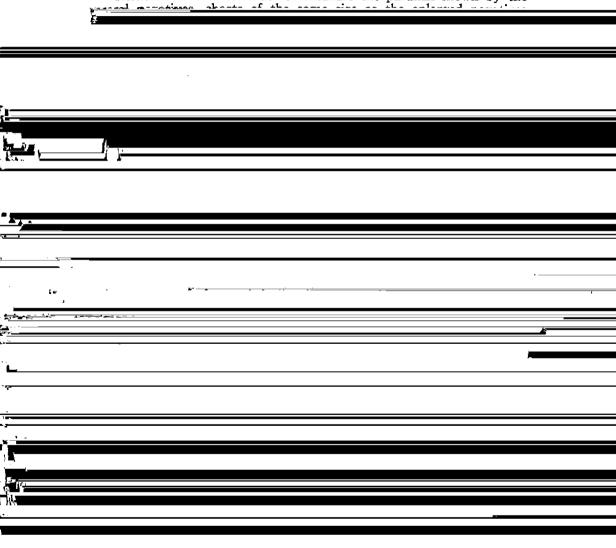
Communication—Although the two points of observation are located



The same antenna and counterpoise are used for both receiving and sending as are also the "A" and "B" batteries. A push-button operated change-over switch, which is conveniently located for the operator, makes this possible.

Time was kept by a Waltham watch and checked against standard time-signals as often as possible, on an average of three times a week. Its rate was found to be fairly constant and had a mean of 0.093 second per hour. A pendulum-clock was available but its rate was unreliable and it was located in an inconvenient place for observational purposes.

nd it was located in an inconvenient place for observational purposes. "Network" charts—In order to measure the parallax shown by the



work" from the empirical equation for the distortion of the camera lens and projector lens. So far only fifteen of these charts have been made; however, these are

made for use in the part of the sky where most of the aurora photographs

Visual record of aurora—It is not always possible to send observers

AUN	AURORAL OBSERVATIONS, ALASKA					COLLEGE, 1930-31			
Remarks	gle ray changing in sity but stationary ray visible only short	ray showing some for and color; rain sen intermittently ugh clouds; rain	termittently through ds; rain	arc; rain	at 07^{h} 00^{m} ; came as G changed to HA	glow in NE illiant; showing color; ing; changing form g rapidly; showing	ed to RA at 10 ^h 50 ^m ; to HA at 11 ^h 00 ^m		
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	Remarks	Very cloudy near horizon Cloudy near horizon; hazy overhead; snow falling Very brilliant at 06b 30m;	sky overcast by 13" 00"; see photo notes See photo notes	See photo notes	See photo notes	Much frost in air	Changed to DG at 08h 00m	notes liffuse	Changed to DS at 09 ^h 30 ^m ;	and went until 17h 00m; see photo notes
<u>ا</u> ا يو	No. exp.	::: 8	: :10	:4 : :	: m:	:::	:::	· ::	:::	
-Continu	Barom- eter	28.9 28.7f 29. r 29.1f	28.6r 29.9f 30. r	29.7f 29.3 29.5r 29.6	28.9f 28.3f	29.1 <i>f</i> 28.7 <i>r</i> 28.8	28.9 28.0 8.0 8.0 8.0 8.0	28.8 28.6 28.6	28.77	
to May 7, 1931—Continued	Weather	Pt. cloudy Cloudy Cloudy Cloudy Clear	Cloudy Pt. cloudy Pt. cloudy	Clear Clear Clear	Pt. cloudy Pt. cloudy	Clear Pt. cloudy Pt. cloudy	Clear Clear Pt. cloudy	Pt. cloudy Clear	rt. cloudy Fog Cloudy	
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