

EXPLORATION OF BRITISH NORTH AMERICA.

47

Enclosure 3 in No. 9.

OBSERVATIONS on the COMET at the HUDSON BAY COMPANY'S FORT, EDMONTON 1858.

Approximate Mean Time at Place.	Chronometer Time of Observation.	Observed Distances.	Object.	Error of Chronometer on G.M.T.	Remarks.
1858.	D. H. M. S.	° ' "		M. S.	
Sept. 20th, 8 P.M.	20 15 37 30	34 24 0	Arcturus ?	- 9 59 slow.	
„ 24th, 8 P.M.	24 15 19 34	28 43 20	Arcturus ?		
	24 37	74 7 40	Capella.		
	7 4	127 45 2	Moon -	- - - -	Mean of five sights.
	16 4 43	102 7 30	α Aquilæ.		
	8 30	21 16 45	η U. Major.		
	11 4	22 54 40	ζ U. Major.		
	14 51	22 7 20	ε U. Major.		
	18 45	56 13 30	Polaris.		
„ 28th, 8 P.M.	28 14 50 22	20 6 20	η U. Major.	- 10 10	
	54 2	24 37 10	ζ U. Major.		
	56 5	24 38 0	ε U. Major.		
	15 9 15	20 49 50	Arcturus ?		
	12 47	96 0 20	α Aquilæ.		
	15 44	59 18 30	Polaris.		
Oct. 2d, 8 P.M. -	2 15 25 25	23 59 20	η U. Major.		
	27 41	29 52 30	ζ U. Major.	- 10 30	
	29 38	31 52 30	ε U. Major.		
	34 0	9 40 0	Arcturus ?		
„ 5th, 8 P.M. -	5 14 56 43	1 13 50	Arcturus ?	- 10 20	At present the comet has changed to S. of Arcturus.
	59 46	31 53 0	η U. Major.		
	15 3 45	38 14 55	ζ U. Major.		
	5 40	40 59 20	ε U. Major.		
	7 44	72 33 50	Polaris.		
	10 29	104 18 30	Capella.		
	12 19	80 23 20	α Aquilæ.		
„ 12th, 8 P.M. -	12 14 38 3	32 39 30	Arcturus ?	- 10 0	
	40 6	31 44 40	α Cor Borealis.		
	42 1	58 56 50	α Lyrae.		
	44 1	62 34 50	α Aquilæ.		
	47 8	59 55 30	η U. Major.		
	48 59	66 35 50	ζ U. Major.		
	53 22	95 32 20	Polaris.		
	51 10	70 16 50	ε U. Major.		
	57 16	134 23 40	Capella.		
	15 1 34	110 6 20	α Pegasi.		

Approximate Mean Time at Place.	Chronometer Time of Observation.	Observed Altitude of the Comet. (Doub.)	Error of Chronometer on G.M.T.
1858.	D. H. M. S.	° ' "	M. S.
Sept. 27th, 8 P.M. -	27 14 43 42	34 59 40	10 8 slow.
	53 1	32 36 30	
	54 54	32 11 35	
	57 17	31 40 20	
	58 21	31 21 30	
	15 0 34	30 50 0	
	3 3	30 15 10	
„ 28th, 8 P.M. -	28 14 37 45	36 22 20	10 10 slow.
	40 47	36 33 52	
	42 17	35 11 0	
	43 23	34 54 10	
	44 31	34 36 30	
	46 2	34 13 25	
	48 28	33 34 10	

N.B.—The index error of sextant +5' 58" is to be applied to each sextant reading which is tabulated in this sheet.

The name of the star to which (?) is affixed I am not quite sure of; it is probably Arcturus.
JOHN PALLISER, Captain,
Commanding North-west British America
Exploring Expedition.