

Expeditions 2014 with AMOS Cameras

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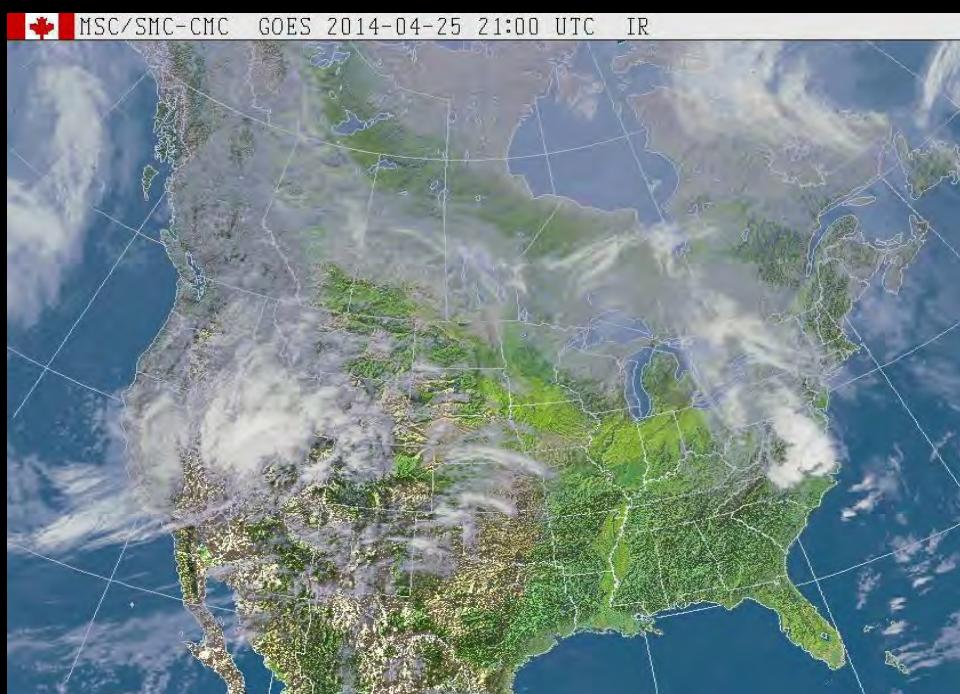
AMOS cameras at Canary Islands

April 2-8, 2014



AMOS cameras in Canada

May 22-24, 2014



Motivation

- 1. Test the Canary Islands observatories sites for future permanent AMOS stations**
- 2. Test the efficiency of AMOS cams in excellent observing conditions**
- 3. Confirm the potential/predicted meteor shower of asteroidal origin in the orbits of Příbram and Neuschwanstein meteorites (Spurný et al, 2003, Tóth et al., 2011, Koten et al., 2014).**









AMOS
All-sky Meteor Orbit System





Image © 2014 GRAFCAN

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[Image Landa]

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google

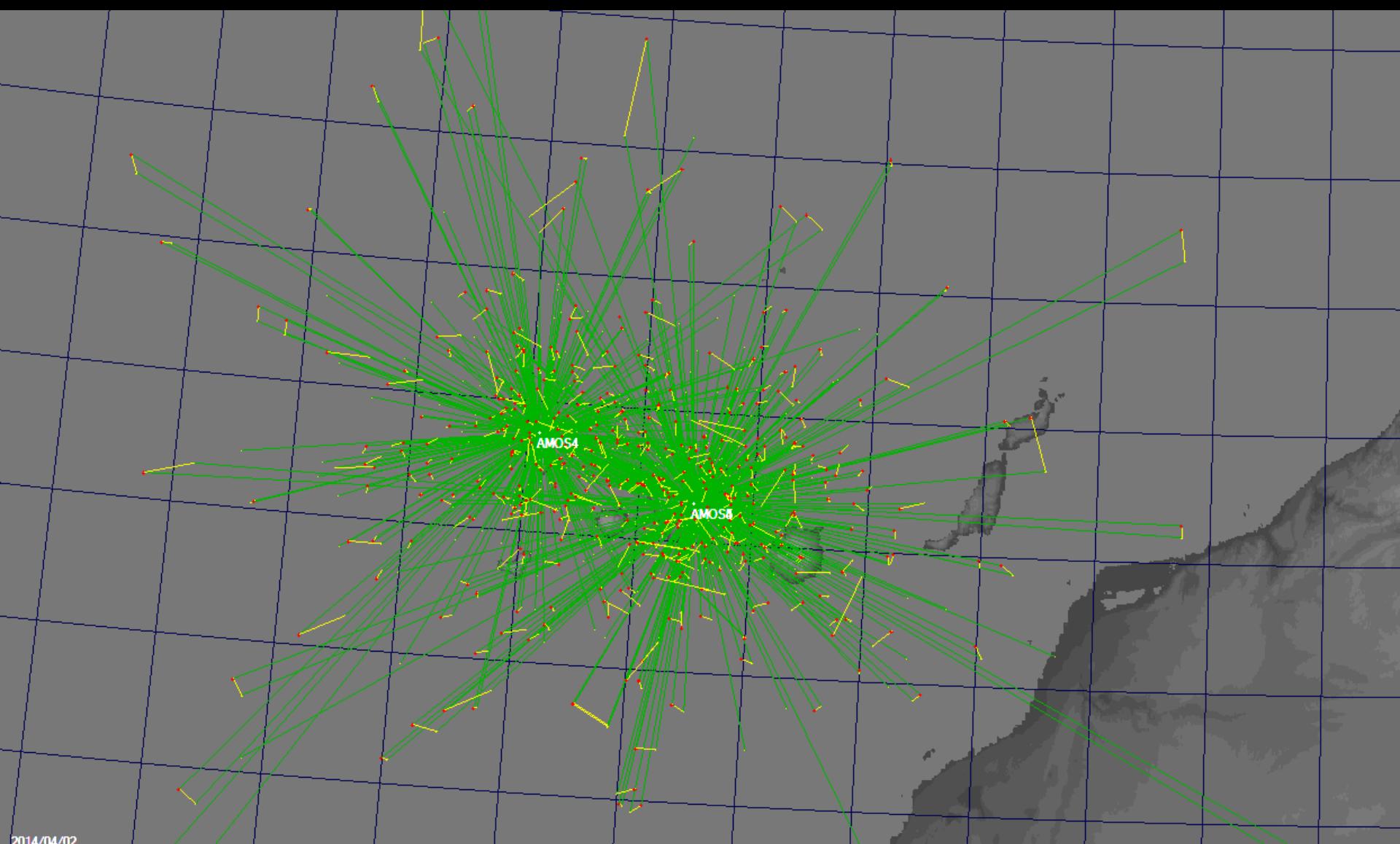


Imagery Date: 12/29/2012 lat 28.763072° lon -17.896554° elev 2126 m ey





	La Palma AMOS4	Tenerife AMOS5	Slovakia AGO	Slovakia ARBO	Slovakia KNM	Slovakia VAZEC
2.4.2014	48	50	26	7	9	6
3.4.2014	49	50	2	1	6	15
4.4.2014	46	60	4	2	4	-
5.4.2014	55	68	-	-	-	-
6.4.2014	38	56	15	-	6	13
7.4.2014	45	48	11	-	5	16
8.4.2014	29	38	-	-	-	-
Σ	310	370	68	10	30	50
	100%	119%	22%	3%	10%	16%



2014/04/02

AMOS cameras at Canary Islands, April 2-8, 2014

- 7 night of observations (sol. Long. 12.8 – 19.1°) -> 680 meteors
- about 1/1 ratio of sporadic and shower meteors,
- magnitude range -3 to +4, majority from 0 to +2
- weak meteor activity (1 established shower, 10 working list)

SPORADICS ~ 3 HR

LVI, KVI ~ 0.3 HR

ZSE, SLE, DAL, ALO ~ 0.2 HR

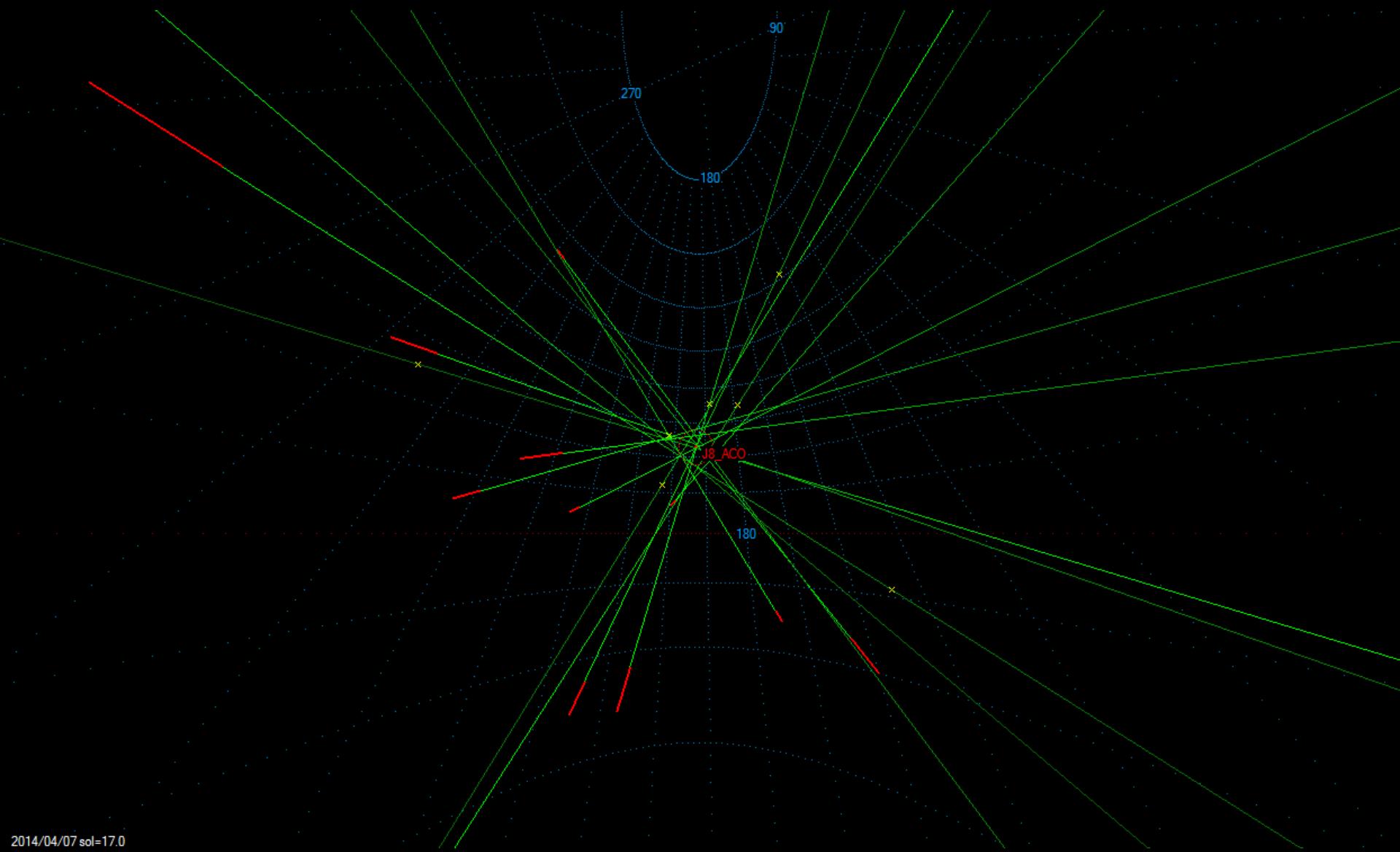
SVI, NVI ~0.1 HR

KSE ~ 0.1 HR

ACO, AAL ~ 0.1 HR

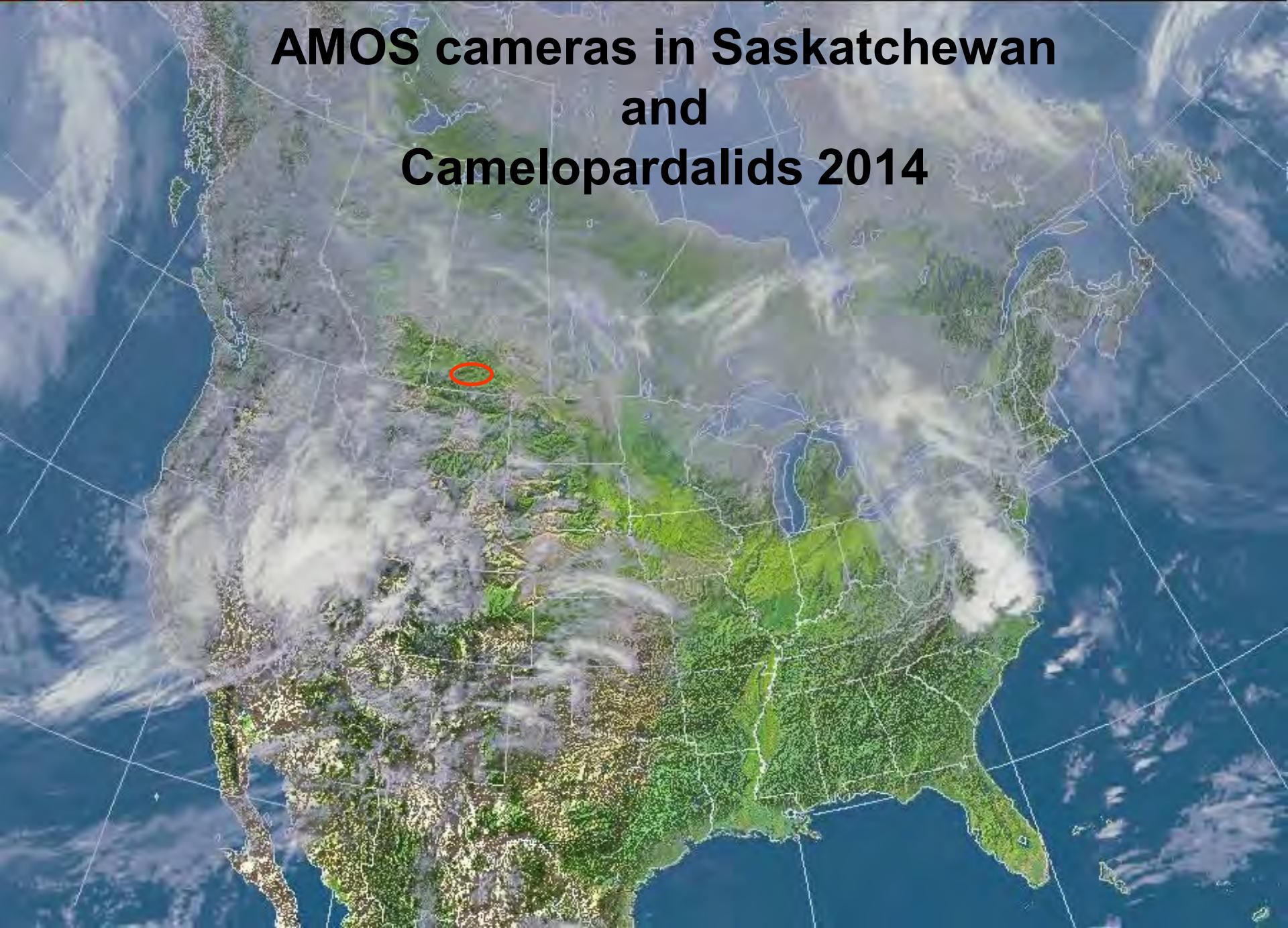
and others ...

- 5 nights of double station obs. (145 km distance) -> 516 meteors
- about 20% of them simultaneously observed
- geometrical and other selection criteria resulted into 54 orbits
- 5 orbits suspected to have close relation to ACO (Pribramids) meteor stream, need to be critically analyzed, discussed



2014/04/07 sol=17.0

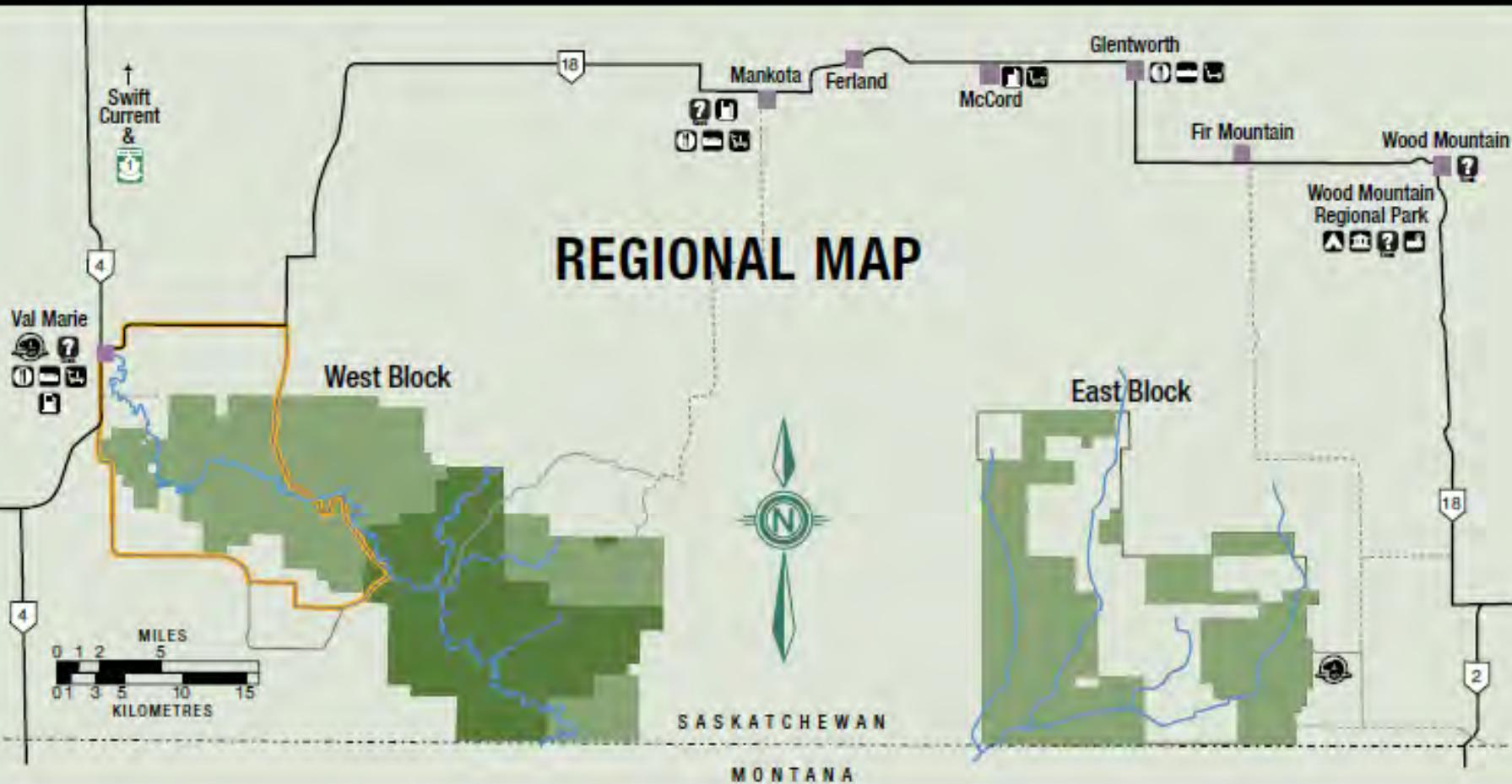
AMOS cameras in Saskatchewan and Camelopardalids 2014



Saskatchewan view



REGIONAL MAP



Grassland National Park - West Block site



The Crossing Resort – P. Zigo installing cameras after transportation



The Crossing Resort – setup of AMOS cams



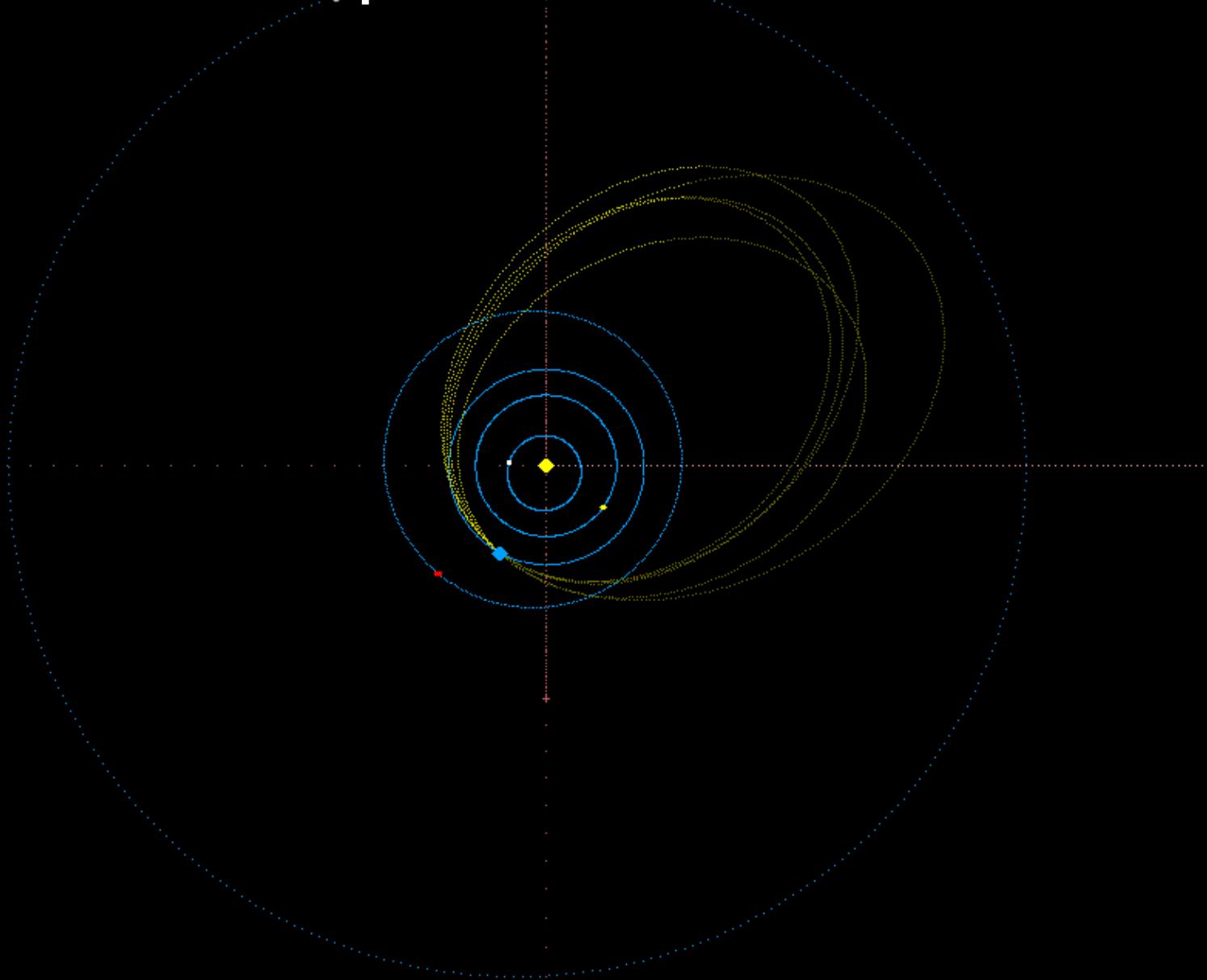
Wood Mountain site – awaiting ...



New morning after CAMs disapointment



Camelopardalids 2014 orbits



A photograph of a large bison standing on a gravel road. The bison is facing right, showing its dark brown body and thick black mane. It is positioned in the center of the frame, standing on a light-colored gravel path that cuts through a field of green grass and yellow flowers. The background shows a flat landscape under a clear blue sky.

Any questions?