

National Park Service - Island Astronomy Institute

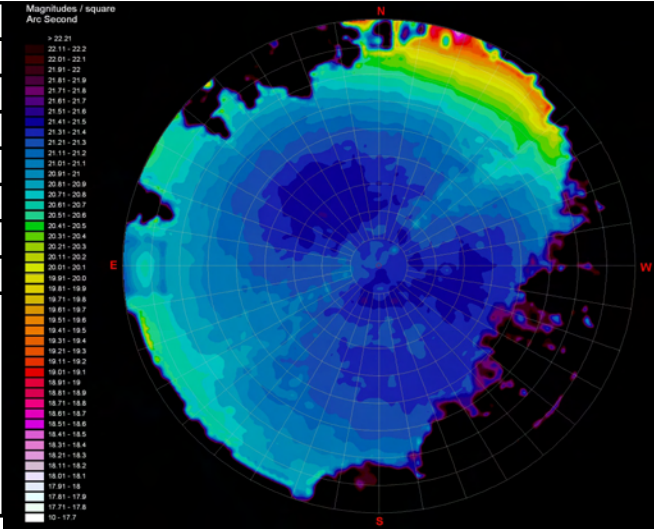
Night Sky Quality Monitoring Report



Report date: 11/12/2007 by: P Lord

PARK:	Acadia	EQUIPMENT:	FLI#2 50mm f2 Bessell 6084
SITE NAME:	Thompson Island	OBSERVERS:	Peter Lord
LONGITUDE:	-68.36	AIR TEMP (°F):	30
LATITUDE:	44.43	REL HUMID (%):	50
ELEVATION (m):	0	WIND SP (mph):	0
DATE (UT):	November 12, 2007	CCD TEMP (°C):	-10
TIME START (UT):	4:44:25	EXP (seconds):	10
DATA QUALITY:	#1 Poor #2 Good	BORTLE CLASS:	4
		ZLM:	6.3

NARRATIVE: Set up at south end of parking lot in handicapped spot. First run poor. Open shutter in 1st run dark frames replaced with run 2. 1st 3 bias frames in run 1 also replaced from 2 due to strong vertical line. Very little traffic this late on a Sunday night. Survey performed for Acadia All American Road.



SKY BRIGHTNESS DATA

Data Set Number	Time (UT)	Extinction coefficient (mag/air-mass)	Std Err Y Extinction Stars (mags)	Zenith (mag/sq arc-sec)	Whole Sky (mags)	Sky Above 20° Altitude (mags)	Brightest (mag/sq arc-sec)	Darkest (mag/sq arc-sec)	Link to Sky Maps
1st Start	4:44:25			21.35					PAN
End	5:14:14	0.243	0.168	21.31	-7.30	-6.82	18.61	24.29	HEMI
2nd Start	5:17:16			21.34					PAN
End	5:47:05	0.241	0.056	21.26	-7.34	-6.86	18.59	24.24	HEMI
3rd Start									
End									
4th Start									
End									
5th Start									
End									
6th Start									
End									

LIGHT DOME DATA

City	Distance (km)	Azimuth	1st Data Set Brightness (mags)
Ellsworth	14	335.0	-5.67
Bar Harbor	13	105.0	-3.81
Head of Island	0	150.0	-3.54
Total			-6.51

