

# National Park Service - Island Astronomy Institute

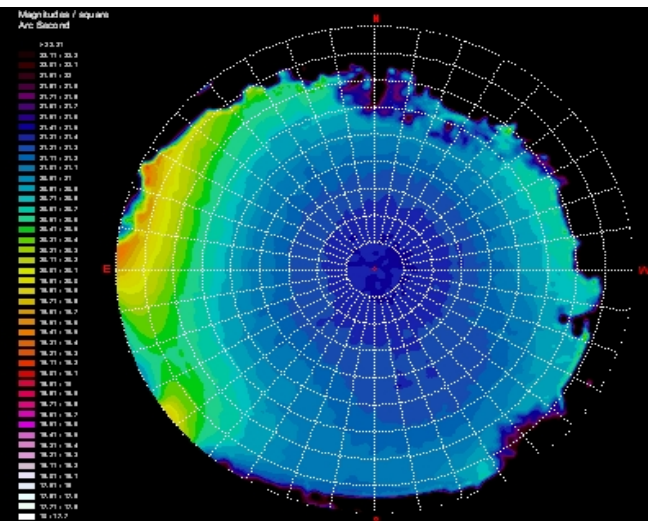
## Night Sky Quality Monitoring Report



Report date: 4/8/2008 by: Peter Lord

<b>PARK:</b>	Acadia	<b>EQUIPMENT:</b>	FLI #2 35mm f2 Bessell 6084
<b>SITE NAME:</b>	47 Fireoverlook	<b>OBSERVERS:</b>	Peter Lord
<b>LONGITUDE:</b>	-68.23016	<b>AIR TEMP (°F):</b>	32
<b>LATITUDE:</b>	44.38427	<b>REL HUMID (%):</b>	39
<b>ELEVATION (m):</b>	30	<b>WIND SP (mph):</b>	0
<b>DATE (UT):</b>	March 31, 2008	<b>CCD TEMP (°C):</b>	-10
<b>TIME START (UT):</b>	2:34:54	<b>EXP (seconds):</b>	10
<b>DATA QUALITY:</b>	Good (see narrative)	<b>BORTLE CLASS:</b>	5
		<b>ZLM:</b>	

**NARRATIVE:** Isolated snow bancs remain. Set up at west end of turnout for best view of BH. Arc not able to complete graphics for 2nd run. Image 1 from run #2 shutter stuck closed replaced it with image #6 same run (no sky). Processed as first run to generate #2 thumbnail. Bangor Daily News reporter and potographer present with lights on occasionally. 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	2:34:54			21.42					<a href="#">PAN</a>
End	3:04:42	0.196	0.042	21.42	-7.43	-7.00	19.50	22.04	<a href="#">HEMI</a>
2nd Start	3:11:43			21.44					<a href="#">PAN</a>
End	3:47:51	0.215	0.045	21.33	-7.52	-7.06	19.45	21.81	<a href="#">HEMI</a>
3rd Start	3:54:53			21.42					<a href="#">PAN</a>
End	4:24:42	0.315	0.046	21.34	-7.44	-7.02		22.04	<a href="#">HEMI</a>
4th Start									
End									
5th Start									
End									
6th Start									
End									

### LIGHT DOME DATA

City	Distance (km)	Azimuth	1st Data Set Brightness (mags)
Bar Harbor	1	75.0	-5.67
Jackson Lab	5	137.0	-4.05
<b>Total</b>			<b>-6.68</b>

