

# Island Astronomy Institute

## Night Sky Quality Monitoring Report

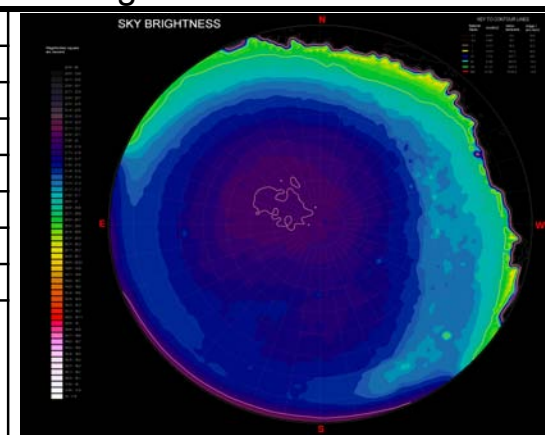


Report date:

by: P Lord

Made Possible In Part by the Quimby Family Foundation & The National Park Service Challenge Cost Share Program

<b>PARK:</b>	Acadia	<b>EQUIPMENT:</b>	SBIG, 50mm f/2, 7706B
<b>SITE NAME:</b>	Sea Wall	<b>OBSERVERS:</b>	Peter Lord
<b>LONGITUDE:</b>	-68.30194444	<b>AIR TEMP (°F):</b>	38
<b>LATITUDE:</b>	44.23722222	<b>REL HUMID (%):</b>	53
<b>ELEVATION (m):</b>	30	<b>WIND SP (mph):</b>	1
<b>DATE (UT):</b>	March 9, 2010	<b>CCD TEMP (°C):</b>	-20
<b>TIME START (UT):</b>	3:16:37	<b>EXP (seconds):</b>	14
<b>DATA QUALITY:</b>		<b>BORTLE CLASS:</b>	ZLM:



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### SKY BRIGHTNESS DATA

### 1st SET LIGHT DOME DATA

Data Set	Time (UT)	Extinction coefficient (mag/air-mass)	Std Err Y Extinction Regression (mags)	Zenith (% L.P. mag/sq arc-sec)	Whole Sky (% LP mags)	Sky Above 20° Altitude (%LP mags)	Brightest (% L.P. mag/sq arc-sec)	Darkest (mag/sq arc-sec)	Index Synthetic SQM	City	Distance (km)	Azimuth	Brightness (mLUX)
1st	Start 3:16:37								80.2				
	End 3:36:12	0.199	0.034	21.79	-7.05	-6.49	20.17	22.03	21.70				
2nd	Start 4:9:55								75.1				
	End 4:29:32	0.200	0.039	21.83	-7.09	-6.55	20.22	21.95	21.65				
3rd	Start 5:3:15								80.7				
	End 5:22:51	0.199	0.042	21.87	-7.08	-6.52	20.24	21.98	21.69				
4th													
5th													
										Total Light Pollution (mLUX)			
										Experimental Astronomical V-Band Scale			
7th										Natural Visual Quality (100 = All Natural)		86.3	
8th	This work was supported by the National Park Service's (2008) Challenge Cost Share Program. Points of view are those of the author(s) and do not necessarily represent the position of the Department of the Interior.												