

# 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>	Jordan Pond House	<b>OBSERVERS:</b>	Peter Lord		
<b>LONGITUDE:</b>	-68.25388889	<b>AIR TEMP (°F):</b>	31		
<b>LATITUDE:</b>	44.32055556	<b>REL HUMID (%):</b>	64		
<b>ELEVATION (m):</b>	30	<b>WIND SP (mph):</b>	3		
<b>DATE (UT):</b>	March 17, 2010	<b>CCD TEMP (°C):</b>	-20		
<b>TIME START (UT):</b>	0:36:18	<b>EXP (seconds):</b>	14		
<b>DATA QUALITY:</b>	Good	<b>BORTLE CLASS:</b>		<b>ZLM:</b>	
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Not Yet Available Analysis Incomplete					

### 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 (% L.P. mags)	Sky Above 20° Altitude (% L.P. mags)	Brightest (% L.P. mag/sq arc-sec)	Darkest (mag/sq arc-sec)	Index Synthetic SQM	City	Distance (km)	Azimuth	Brightness (mLUX)
1st	Start 0:36:18 End 0:55:56	0.214	0.035	21.41	-7.22	-6.79	20.06	21.74					
2nd	Start 1:29:39 End 1:49:16	0.220	0.034	21.57	-7.13	-6.69	20.10	21.83					
3rd	Start 2:22:59 End 2:42:37	0.221	0.042	21.65	-7.05	-6.62	20.19	21.89					
4th	Start 3:16:20 End 3:35:58	0.217	0.036	21.79	-6.97	-6.53	20.29	21.96					
5th	Start 4:9:41 End 4:29:17	0.216	0.036	21.84	-6.92	-6.47	20.34	21.84					
6th										Total Light Pollution (mLUX)			
7th										Experimental Astronomical V-Band Scale			
8th										Natural Visual Quality (100 = All Natural)			

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