

**U.S. Naval Observatory
Astronomical Applications Department**

Sun and Moon Data for One Day

The following information is provided for Alpena, Alpena County, Michigan (longitude W83.4, latitude N45.1):

Friday		Eastern Daylight Time
23 September 2011		
SUN		
Begin civil twilight	6:52 a.m.	
Sunrise	7:22 a.m.	
Sun transit	1:26 p.m.	
Sunset	7:30 p.m.	
End civil twilight	7:59 p.m.	
MOON		
Moonset	4:35 p.m.	on preceding day
Moonrise	2:37 a.m.	
Moon transit	9:59 a.m.	
Moonset	5:09 p.m.	
Moonrise	3:50 a.m.	on following day

Phase of the Moon on 23 September: waning crescent with 19% of the Moon's visible disk illuminated.

Last quarter Moon on 20 September 2011 at 9:39 a.m. Eastern Daylight Time.

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