



# LADEE STATUS



**PDS Management Council  
Nov 18, 2013  
Board of Trustees Room in the Millikan Library  
Caltech**

**R. Beebe  
L Huber  
Input from G. Delory/LADEE**

# LADEE STATUS

---

1. All SISs are complete except for UVS signatures
2. The next DAWG will be held in conjunction with AGU
3. Mission Status by Greg Delory -11/14/13  
LADEE operations are going smoothly, everything seems to be working well.  
Operations in Science Communications Orbit is underway with low passes over the dayside (sunrise) terminator.  
A maneuver on 11/21 will lower the craft into the science orbit and begin the 100 day science operations
4. Results so far  
NMS has detected He and Ar. Argon is significant because LRO didn't detect it.  
LDEX has been seeing dust hits.
5. The orbit will be subject to influence from mascons. Fine tuning of the orbit will depend on UVS limb scans. Shake out of determining the accuracy of spacecraft pointed for this procedure is underway

# LADEE Report Card

Project- LADEE						
Instrument / Data Set	Example Products and Labels	Peer Review	Data Release 1*	Peer Review	Data Release 2*	Data Release 3 (if necessary)
NMS	06/01/13	06/11/13	03/05/14	04/05/14	06/01/14	not expected
	05/14/13	06/11/13				
UVS	02/20/13	03/12/13	03/05/14	04/05/14	06/01/14	not expected
	02/13/13	03/12/13				
LDEX	12/15/12	01/08/13	03/05/14	04/05/14	06/01/14	not expected
	12/01/12	01/08/13				
LLCD	n/a	n/a				
SPICE	TBD	TBD	03/05/14	04/05/14	06/01/14	not expected

# LADEE Help Pages

---

LADEE help pages are located at

<http://atmos.nmsu.edu/PDS4BETA/LADEE/mainr.html>

They are being populated as we go

Need links to solar activity and dust environment

Candace Gray, NMSU Grad student who studies the green line in Venus' atmosphere, and Greg Delory are advising on solar activity

These are the major sites for Space Weather :

[www.spaceweather.com](http://www.spaceweather.com)

<http://iswa.gsfc.nasa.gov/iswa/iSWA.html>

<http://iswa.ccmc.gsfc.nasa.gov/IswaSystemWebApp/>

[http://sdowww.lmsal.com/suntoday\\_v2/index.html?suntoday\\_date=2013-08-11](http://sdowww.lmsal.com/suntoday_v2/index.html?suntoday_date=2013-08-11)

<http://www.swpc.noaa.gov/Data/index.html>

<http://www.ngdc.noaa.gov/stp/>

<http://www.ngdc.noaa.gov/stp/space-weather/solar-data/solar-features/>

# Dust Environment

LADEE is interacting with MSFC to determine how to access their hazard data to characterize dust environment, Jennifer Heldmann/AMES did this for LCROSS but according to Rick Elphic it is not in the LADEE budget.

This remains an open question that can have considerable impact on mission results.

(Leonids peaked last weekend)

# Impact Flash Rate with Meteor Showers

Must observe anytime to detect sporadics and minor shower meteoroids

