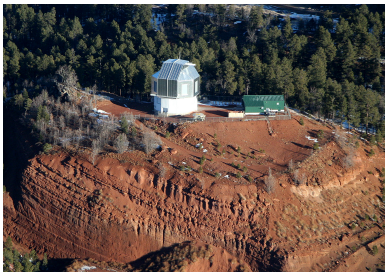


LDT Site Information

		Instruments			
		Instrumentation Main Page			
		<u>Facility</u>			
		<u>Instruments:</u>			
Quick Links	LDT Observer Information Home		Large Monolithic Imager (LMI)		
	Instrumentation	Facility	DeVeny Optical Spectrograph	Observing Planning	
	Applying for Observing Time	LDT Science Schedule	NIR Spectrograph (NIHTS)	Applying for Observing Time	
	Observing Run Planning	LDT Staff	<hr/> <u>Visitor / PI Instruments:</u> <hr/>	Planning Checklist	
	At the Telescope (Printable Logsheets)	Telescope		Remote Observing	
	Target of Opportunity (ToO) Policies	Site Information		Target of Opportunity (ToO) Policies	
	Weather	Acknowledging LDT		Remote Observing	
	After Your Observing Run	Selected Technical Publications		LDT Startup Procedures	
	First-Time Users			Closure Conditions	
	Logistics			Night Feedback Form	
	LDT Important Notes			End of Night Tasks	
		<u>User Manuals:</u>			
		LMI Manual			
		DeVeny Manual			
		NIHTS Manual			



Overview

The Lowell Discovery Telescope is near the village of Happy Jack, about 1 hour south of Flagstaff. This dark-sky site sits on the Coconino National forest at an altitude of 7,740 feet. The LDT enclosure and D. Blackett & R. Wachs Telescope Support Building sit atop an extinct cinder cone located on a 35-acre special use permit area of USFS land.

Site Characteristics:

- Good seeing
- Dark site
- Previously disturbed site as the cinder cone was mined for cinders. This is why the southern side below the observatory is so steep. The land is owned by the USFS and because it was already disturbed, this simplified the required environmental impact assessment.
- Proximity to road and power, and modest travel time to Flagstaff.

Site Survey Paper: [Bida, T. A., et al. 2004, Proc. SPIE, 5489, 196](#)

Driving to LDT – Directions for how to get to the site

Lodging for LDT Observing Runs – Where to stay during your observing run

On-Site safety:

- Because of the altitude and low humidity of the LDT site, remember to drink plenty of water to avoid dehydration.
- If you have not been to the site before, please don't enter without a Lowell staffer, or someone who is familiar with the site. There is an alarm that needs to be dis-armed, and it is not always obvious how. Your lodging packet should include keys and written instructions about the gate and alarm codes.

Site Coordinates:

Measured Coordinates	Encoded Coordinates
From the site GPS unit: (Symmetricom S250, WGS84) Date: 2013-07-08 UT Latitude: 34:44:39.498 N Longitude: 111:25:21.054 W Altitude: 2337 meters	Coded into the TCS: Date: 2013-07-08 UT Latitude: 34.7443 = 34:44:39.48 N Longitude: 111.4223 = 111:25:20.28 W Altitude: 2361 meters
From the POETS Green GPS: (Spectrum TM-4, WGS84) Date: 2013-01-10 UT Latitude: 34:44:39.60 N Longitude: 111:25:20.40 W Altitude: 2388 meters (on the EI ring)	Coded into the MCU: Date: 2013-07-08 UT Latitude: 34.7443 = 34:44:39.48 N Longitude: 248.5774E = 360 - 248.5774 W = 111.4226 W = 111:25:21.36 W Altitude: 2336 meters
Date: 2013-03-05 UT Latitude: 34:44:39.60 N Longitude: 111:25:21.60 W Altitude: 2344 meters (on the EI ring)	

Note: There is a slight degeneracy between latitude and elevation in GPS measurements, hence coordinates vary slightly.