



How to make an observation with the Real-Time mode of the LCO telescopes

Summary

Short Description: This document explains how to use the RTI mode of observing on the LCO robotic telescopes.

Language: English

Suitable for age: 7-18 years

Key words: Robotic telescopes; Observing

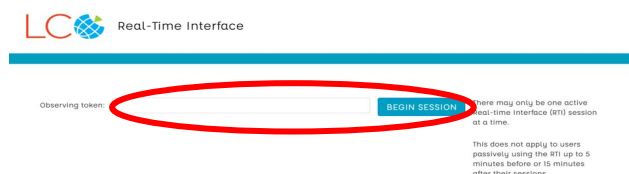
Format: .doc

Link: <https://rti.lco.global/>

Instructions

1. Log into the RTI, which can be accessed from <https://rti.lco.global>

Paste the provided token into the field shown and click the BEGIN SESSION button.



This navigates to the RTI Observing screen. If the current time is not between **5 minutes before** and **15 minutes after** the valid slot for which the token has been generated, an error message will be returned.



LC Real-Time Interface

Current Time: 2017-09-07 18:32:22 UTC
Session start: 2017-09-07 18:00:00 UTC
Session end: 2017-09-07 18:30:00 UTC

Welcome bkurczynski

Status info Help Exit session

You are logged in to observe on the Australia 0.4-meter telescope

Session status: Ended

0 minutes remaining

Observatory status: Available
Telescope status: Tracking
Camera status: Idle
Progress: Ready

Current sky

Target Input Mode: Manual List

Target Name: NGC2189

Right Ascension: 08:08:30.0

Declination: 13:08:01.2

Filter: Green

Exposure Time: 4

Go!

Live webcam showing the Australia 0.4-meter telescope

Most recent image

Session Images

Target Name	Right Ascension	Declination	Exposure Time (sec)	Filter	Timestamp (UTC)	Image type
NGC772	01:59:18.3	19:00:45.7	120	Green	2017-09-07 18:15:14	Preview
NGC772	01:59:17.7	19:00:08.5	120	Green	2017-09-07 18:15:14	Processed
NGC772	01:59:17.7	19:00:08.5	120	Red	2017-09-07 18:15:14	Preview

2. Select “List” in the Target Input Mode and select the desired target from the list *or* select “Manual” in the Target Input Mode and type a **Target Name**, **Right Ascension**, and **Declination** into the labeled boxes.

Camera: Status unavailable

Progress: Status unavailable

Target Input Mode: Manual List

Target Name: Select a target...

Right Ascension: HH:MM:SS.S

Declination: DD:MM:SS.S

Filter:

Exposure Time: Seconds

Go!

Live webcam

Session Images

Target Name	Right Ascension	Declination	Exposure Time (sec)	Filter	Timestamp (UTC)	Image type
NGC772	01:59:18.3	19:00:45.7	120	Green	2017-09-07 18:15:14	Preview
NGC772	01:59:17.7	19:00:08.5	120	Green	2017-09-07 18:15:14	Processed
NGC772	01:59:17.7	19:00:08.5	120	Red	2017-09-07 18:15:14	Preview

3. Select a filter using the pull-down menu and enter an exposure time into the box between 1 second and the number of seconds remaining in the session.

For objects from the list, recommended exposure times will appear when the filter is selected. The recommended exposure times can be modified if deemed necessary.

4. When the Progress status field is “**READY**”, click the **GO!** Button. The **PROGRESS** status should change to **EXECUTING REQUEST**, the telescope will move to the requested position, and the camera will begin exposing. A countdown will appear to the right of the Camera Status: **EXPOSING** text.

5. When the exposure is complete, the camera status will change to **READING_OUT**, and then back to **IDLE** when readout is complete.

6. Follow the same procedure to choose another object to observe.

