NGR Quick Start Guide

- IntroductionProcedures
 - Procedures
 - Preparing the Instrument
 - Preparing Sections
 Making a Measurement
- Uploading Data to LIMS
- Credits
- Archived Versions

Introduction

The Natural Gamma Ray Logger (NGRL) measures the amount of natural gamma radiation within whole-round core sections. See 'NGRL User Guide' and ' Technical Note 26: Physical Properties handbook' for additional details.

Procedures

· Preparing the Instrument

- 1. Double-click the **MUT** icon on the desktop (Figure 1a) and login using ship credentials. For more information on data uploading see the "Uploading Data to LIMS" section below.
- 2. Double-click the IMS icon (Figure 1b). IMS initializes the instrument and checks the movement of the track. Once initialized, the logger is ready to measure the first section.



Figure 1. (a) MUT Icon. (b) IMS Icon.

• Preparing Sections

- 1. Wipe off excess moisture and/or mud from the core liner.
- 2. Tape any drill holes, when applicable.

Note: All core sections entering the NGR must be completely dry. Any moisture or liquid present will DAMAGE the instrument.

· Making a Measurement

Note: If you would like to change measurement parameters, please contact the PP technician.

1. Place section in the core tray. Make sure the section is oriented blue endcap towards the instrument, and is placed against the top of the metal boat (Figure 2).



Figure 2. Correct core position.

2. Click Start. The Section Information screen is displayed (Figure 3).

Get Sample Information										
NGR Section Information										
	Select Input Met	hod		_						
	Scanner	LIMS	Manual	LIMS Web Services						
Any value greater than zero will override lengths provided by the detabase or from the label.										
Core Status Full "FULL" returns SECT "HALF" returns SHLF	SCAN					Missing Top 0.00				
						Label Length 0.00 _{cm} LIMS Length 0.00 _{cm}				
Liner Status Full						User must enter a verified length grows descrave User Length 0.0				
						MEASURE				
					^					
	LIMSID			Comment	v	CANCEL				
				Comment	- spore					

Figure 3. NGR Section Information screen. User Length box is marked in the red square.

3. Place the cursor in the SCAN field and scan the section label. SAMPLE ID and LIMS ID automatically fills. This ID tag contains information on expedition, site, hole, core, section number and length.

Additional entry field options are the LIMS and MANUAL tabs.

- 4. Enter sample length into User Length text box. Round down to the nearest centimeter.
- 5. Double-click **MEASURE**.

6. The boat moves to the first measurement position, and begins measurements. Once finished, if selected, the boat moves to the second position, and begins measurements. The typical measurement rate is 300 seconds per position. Real time graphs are displayed during acquisition (Figure 4). The graphs display the counts for each detector at each position, also the full spectra for each detector.



Figure 4. NGR real-time graphs.

7. Once the measurement is complete, the boat returns to the load position.

8. All instrument data are stored in C:\DATA\IN.

9. MUT is used to upload data to the LIMS database. See section "Uploading Data to LIMS" for more information.

10. Once uploaded, data is available to view on LORE and LIVE. If data is not instantly visible, please contact the PP technician.

Uploading Data to LIMS

- 1. Click the MUT Icon. Log in using database credentials.
- 2. Once activated, the list of files from the C:\DATA\IN directory is displayed. Files are marked ready for upload by a green check mark (Figure 5).

n MegaUploadaTron 5000 (jr_pinero) ver. 0.0.0.0 — — — >											
File	Options	Help					jr_pinero	▼ New User Logon			
Files To Upload:											
		Status	Analysis	ErrorMessage	Filename	Misc	Sample	▲			
			Laser profile of sp		378-U1553A-1H		SHLF10740511				
	•	×	Laser profile of sp		ADSDSA_20200		DSADDAS00000				
	v	×	Laser profile of sp		A_20200501162		A00000				
	V	×	Laser profile of sp		CC-ES1_202005		CC_ES1				
	V	×	Magnetic Suscep		CC-ES1_202005		CC_ES1				
	V	×	Reflectance Spe		CC-ES1_202005		CC_ES1				
	V	×	Laser profile of sp		CC-ES2_202005		CC_ES2				
	V	×	Magnetic Suscep		CC-ES2_202005		CC_ES2				
	V	 Image: A set of the set of the	Reflectance Spe		CC-ES2_202005		CC_ES2				
	V	×	Laser profile of sp		CC-ES3_202005		CC_ES3				
	1		I and a state of an		CC EC4 202005		CC E64	*			
🔽 – R	efrech mode	Timed Interval: 5	sec Project: 000	-			- Auton	beelel beelet			

Figure 5. Main MUT screen

- 3. To manually upload files, check each file individually and clip upload. To automatically upload files, click on the Automatic Upload checkbox.
- 4. If files are marked by a purple question mark or red and white X icons, please contact a technician. Purple question mark: Cannot identify the file.

Red and white X icons: Contains file errors.

5. Upon upload, data is moved to C:\DATA\Archive. If upload is unsuccessful, data is automatically moved to C:\DATA\Error. Please contact the PP technician is this occurs.

Credits

This document originated from the web page "NGR Quick Start Guide (IMS-378P)" by Ty Cobb on Exp 368X. Credits for subsequent changes to this document are given in the page history.

All improvements to the Quick Start Guides and User Guides are a communal effort, with honorable mention to the group of LOs, ALOs, and technicians who have helped.

Archived Versions

- NGRQuickStartGuide_v368X.pdf
 NGR Quick Start Guide 2020 (*.pdf)
 LMUG-NGRQuickStartGuide v2020: An exported PDF version of this wiki page as of 2020-10-28.