



SPECTRO SOFTWARE OVERVIEW & INSTALLATION

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What should we have installed?

- ISIS
- Demetra
- Bulk Rename Utility
- Important note: this is all optional – but recommended

Why ISIS?

- OHP
- BeSS

Why Demetra?

- “Demetra manages acquisitions AND data reduction, as well as spectra plotting.”
- “Developed by Shelyak Instruments with the Alpy 600 in mind”

Why Bulk Rename Utility?

- “Rename multiple files quickly”
- ISIS is very picky about file naming conventions

But, what about the other software?

- Visual Spec / VSpec
- RSpec
- BASS
- IRAF
- Python / PyRAF

What is ISIS?

- “A free Windows application dedicated to processing of astronomical spectral data”
- Data reduction software – and more (e.g., plotting)

What is data reduction?

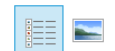
- It's a process
- The process of taking a large amount of data and transforming it into a simplified form that is scientifically useful
- Large amount of data?
 - *Offset frames (aka bias frames)*
 - *Darks*
 - *Flats*
 - *Calibration frames*
 - *Spectral images*

Installation & Trouble Shooting

- Refer to the Software Install tab on the smsweb.com website
- Refer to the handout in your workshop bag
- We have a limited number of USB drives with software that can be shared – just download the software from the drives instead of downloading from websites
- Joe and Ken available to help – or ask your neighbor!

Name	Date modified	Type	Size
__MACOSX	2/18/19 3:25 PM	File folder	
en	2/18/19 3:25 PM	File folder	
fr	2/18/19 3:25 PM	File folder	
alglibnet2.dll	2/18/19 3:25 PM	Application extension	860 KB
isis - Shortcut	2/18/19 3:25 PM	Shortcut	2 KB
isis	2/18/19 3:25 PM	Application	4,944 KB
libdcraw32.dll	2/18/19 3:25 PM	Application extension	339 KB
libdcraw64.dll	2/18/19 3:25 PM	Application extension	340 KB
list_instru	2/17/18 8:06 AM	Text Document	1 KB
list_obs	8/11/16 4:16 AM	Text Document	1 KB
list_observer	2/6/17 12:58 PM	Text Document	1 KB

- OneDrive
- This PC
 - 3D Objects
 - Desktop
 - Documents
 - Downloads
 - Movies
 - Music
 - Pictures
 - Local Disk (C:)



- nit_2012090
- nit_2012090
- nit_2012091
- PerfLogs
- Program Files
- Program Files
- smsw2_websit
- Isis
- Lhires_Bench_Ser
- Local Disk (C:)
- Presentations
- OneDrive
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Movies
- Music
- Pictures
- Local Disk (C:)

Name	Date modified	Type	Size
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contrib	1/26/19 1:39 PM	File folder	
demo	1/26/19 1:39 PM	File folder	
docs	1/26/19 1:39 PM	File folder	
etc	1/26/19 1:39 PM	File folder	
license	1/26/19 1:39 PM	File folder	
share	1/26/19 1:40 PM	File folder	
BUGS	4/28/15 2:09 PM	File	1 KB
ChangeLog	4/28/15 2:09 PM	File	246 KB
Copyright	4/14/04 2:23 AM	File	2 KB
Copyright-ja	1/14/12 5:16 PM	Text Document	3 KB
NEWS	4/28/15 2:09 PM	File	42 KB
README	6/1/09 4:20 AM	File	7 KB
README-Windows	1/1/14 3:43 AM	Text Document	9 KB
README-Windows-ja	1/1/14 3:43 AM	Text Document	9 KB
std.gnu	3/28/16 4:37 AM	GNU File	2 KB
std2.gnu	11/22/14 9:47 PM	GNU File	3 KB
std2y.gnu	11/22/14 9:47 PM	GNU File	3 KB