Agenda for Python Training

College Park, MD

January 2016

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| **Friday, January 22 9:00 AM – 5:00 PM (EST)** | | |
|  | **Topic** | **Speaker** |
| 20 min | System Overview | Christina |
| 30 min | Object-oriented Scripts | Sam |
| 20 min | Logs Overview | Christina |
| **20 min (10:10)** | **Break** |  |
| 30 min | Troubleshooting | Sam |
| 20 min | Configure Options | Christina |
| 20 min | Configuring | Sam |
| 20 min | Rocoto for HWRF | Christina |
| **60 min (12:00)** | **Lunch (on your own)** |  |
| 30 min | Database | Sam |
| 15 mins | Debugging | Christina |
| 45 min | Navigating Scripts | Christina |
| **30 min (3:00)** | **Break** |  |
| 90 min (end of day at 5) | Demonstration: Adding a Workflow Component | Christina & Sam |

Shaded times indicate NCO-friendly sessions.

System Overview

* Outline of system design
* Basin configurations
* Alternate configuration options
* Resources for Users and Developers

Object-oriented Scripts

* Overview of O-O programming
* How it’s implemented for HWRF

Logs Overview

* Jlog
* Standard output/error streams
* Component logs

Troubleshooting

* How to identify and handle failures
* Adding alerts
* Using fallbacks
* When and why to edit storm1.conf

Configuring

* Configuration files
* HWRF Classes responsible for configuration

Configure options

* Explanation of conf sections/keys and alternate conf files

Database

* How it’s used for HWRF
* Contents

Debugging

* Running scripts from command line
* Using an interactive session

Navigating Scripts

* Reading the scripts for better understanding of the system
* hwrf\_expt.py overview

Demonstration: Adding a Workflow Component

* Overview of necessary scripts
* Input/output considerations
* Plugging in