

**7th JEDI Academy Agenda**  
October 4 - 8, 2021  
Attendance Virtually via Zoom

**IMPORTANT**

**Please note that in order to participate in the Academy each day, you MUST complete the prerequisites listed below in red for each day *prior* to that day.**

**We will not be providing any time during the Academy to watch lectures and you will need information from the lectures to complete the practicals.**

**Zoom Meeting Information**

Meeting Link:

<https://us06web.zoom.us/j/85027587466?pwd=bDI0ZUftFTUp2cmJLKzUrbHZOUzJsdz09>

Meeting ID: 850 2758 7466

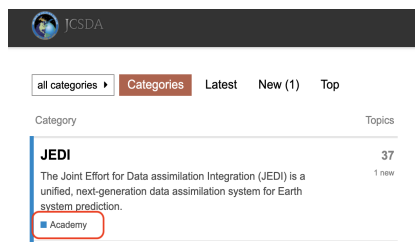
Passcode: 115347

**Practical Time Structure**

- 5 minutes for topic introduction
- 1 hour + 15 minutes of work time
- 10 minutes for practical debrief

**JCSDA Forums**

If you have any questions while watching the lecture videos prior to practical sessions, please log them via [JCSDA Forums](#) under the “Academy” category so that they can be answered by instructors.



The “Academy” category (outlined in red) under JEDI already contains FAQs from the 6th JEDI Academy and can be used as a resource before, during, and after the upcoming academy.

You should receive an invitation to join the JCSDA Forums via email before the 7th JEDI Academy. If you do not receive an invitation by October 1, 2021, please send an email to Kat at [kshan@ucar.edu](mailto:kshan@ucar.edu).

**7th JEDI Academy Website**

The tutorials for the practicals and the schedule are posted on the [7th JEDI Academy website](#). Please reference this site while working through the practicals.

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<b>Monday</b> October 4, 2021		
<b>Theme: Introduction to JEDI</b>		
<p><b>Please watch the following lectures BEFORE Monday, October 4:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Why JEDI?</a></li> <li>• <a href="#">Using JEDI: GitHub, Ecbuild, Containers, Modules</a></li> <li>• <a href="#">Introduction to Configurations and YAML</a></li> <li>• <a href="#">What is IODA?</a></li> </ul>		
<b>MT</b>	<b>Activity</b>	<b>Presenter(s)</b>
8:45 - 9:00 am	Arrivals  Brief Introduction to Academy  Introduction to Teaching Team	Yannick, Kat
9:00 - 9:20 am	Lecture Q/A Session	JEDI Core Team
9:20 - 10:50 am	Getting Started with JEDI	Mark
10:50 - 11:20 am	Break	
11:20 am - 12:50 pm	Add Observations and Configurations	Steve
12:50 - 1:05 pm	Day Debrief and Feedback Session	JEDI Core Team

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<b>Tuesday</b> October 5, 2021		
<b>Theme: Running JEDI with Observations</b>		
<p><b>Please watch the following lectures BEFORE Tuesday, October 5:</b></p> <ul style="list-style-type: none"> <li>● <a href="#">Introduction to Unified Forward Operators (UFO)</a></li> <li>● <a href="#">UFO Specifics: CRTM</a></li> <li>● <a href="#">Observation Operators and QC: General User Focus vs. Configuration Specific, How to Test Results</a></li> <li>● <a href="#">Observation Operators and QC: Developer Focus, Implementation</a></li> </ul>		
<b>MT</b>	<b>Activity</b>	<b>Presenter(s)</b>
8:55 - 9:00 am	Arrivals	
9:00 - 9:20 am	Lecture Q/A Session	JEDI Core Team
9:20 - 10:50 am	Run H(x) in Test Environment for Several Instruments, Display Results	Ryan
10:50 - 11:20 am	Break	
11:20 am - 12:50 pm	BC and QC Configurations for Observations: Radiance/Conventional, Check Results	Ryan
12:50 - 1:05 pm	Day Debrief and Feedback Session	JEDI Core Team

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<b>Wednesday</b> October 6, 2021		
<b>Theme: Data Assimilation with JEDI</b>		
<p><b>Please watch the following lecture videos BEFORE Wednesday, October 6:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">QC Configurations, ObsFunctions, Code Changes</a></li> <li>• <a href="#">JEDI C++</a></li> <li>• <a href="#">Data Flow, Interfaces</a></li> <li>• <a href="#">DA and Applications</a></li> </ul>		
<b>MT</b>	<b>Activity</b>	<b>Presenter</b>
8:55 - 9:00 am	Arrivals	
9:00 - 9:20 am	Lecture Q/A Session	JEDI Core Team
9:20 - 10:50 am	Data Assimilation Diagnostics	Mark
10:50 - 11:20 am	Break	
11:20 am - 12:50 pm	Data Assimilation in 4D	Dan
12:50 - 1:05 pm	Day Debrief and Feedback Session	JEDI Core Team

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<b>Thursday</b> October 7, 2021		
<b>Theme: Models and Testing</b>		
<p><b>Please watch the following lecture videos BEFORE Thursday, October 7:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">BUMP Usage</a></li> <li>• <a href="#">BUMP Science</a></li> <li>• <a href="#">Model Space</a></li> <li>• <a href="#">Unit Testing, Writing Tests</a></li> </ul>		
<b>MT</b>	<b>Activity</b>	<b>Presenter</b>
8:55 - 9:00 am	Arrivals	
9:00 - 9:20 am	Lecture Q/A Session	JEDI Core Team
9:20 - 10:50 am	Advanced Model Features	Benjamin
10:50 - 11:20 am	Break	
11:20 am - 12:50 pm	Add Test	Maryam
12:50 - 1:05 pm	Day Debrief and Feedback Session	JEDI Core Team

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<b>Friday</b> October 8, 2021		
<b>Theme: Best Practices to Use JEDI</b>		
<p style="color: red;"><b>Please watch the following lecture videos BEFORE Friday, October 8:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Working Principles</a></li> <li>• <a href="#">PR and Code Review</a></li> </ul>		
<b>MT</b>	<b>Activity</b>	<b>Presenter</b>
8:55 - 9:00 am	Arrivals	
9:00 - 9:20 am	Lecture Q/A Session	JEDI Core Team
9:20 - 10:50 am	PR and Code Review	Mark
10:50 - 11:10 am	Day Debrief, General Feedback	JEDI Core Team