

**SHORT COURSE ON INTEGRATING NWP SYSTEM COMPONENTS USING CONTAINER TECHNOLOGY
AND CLOUD SERVICES**

SHORT COURSE ORGANIZERS

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SUNDAY, 12 JANUARY 2020

Time	Topic	Speaker
8:00 AM	Introductions: Opening remarks, Program overview	Jamie Wolff
8:15 AM	Lecture: Why use containers and cloud computing?	Kate Fossell
8:45 AM	Hands-on Exercise: Access cloud computing and course containers	John Halley Gotway
9:00 AM	Demonstration: Orientation of container syntax	Mike Kavulich Jr.
9:30 AM	Lecture: Introduction to containerized NWP system and case study overview	Jamie Wolff
9:40 AM	Hands-on Exercise: Run pre-processing, model, post-processing, and visualization containers	Mike Kavulich Jr.
10:00 AM	Break	
10:30 AM	Lecture/Demonstration: Introduction to containerized verification and modifying for user-specific needs	Michelle Harrold John Halley Gotway
11:10 AM	Hands-on Exercise: Run verification container	John Halley Gotway
11:30 AM	Lecture: Introduction to containerized plotting of statistical output	Michelle Harrold
11:50 AM	Hands-on Exercise: Run verification visualization container	John Halley Gotway
12:10 PM	Lunch Break	(on your own)
1:30 PM	Demonstration: Modifying runtime options within containers	Kate Fossell
2:15 PM	Hands-on Exercise: Run additional case study	All
3:30 PM	Course wrap-up: Review concepts, answer remaining questions	Jamie Wolff
3:45 PM	Course end	