

Fostering Best Practices in Earth Science Applications:+ + + + + + + + +

Meet the Guidebook

Erin Martin 21 September 2022



WELCOME

Cindy Schmidt – Associate Program Manager, Ecological Forecasting



EARTH SCIENCE APPLIED SCIENCES

EARTH SCIENCE APPLICATIONS GUIDEBOOK

Link: appliedsciences.nasa.gov/ guidebook

NASA EARTH SCIENCE APPLICATIONS GUIDEBOOK

Fostering Best Practices in Earth Science Applications: Meet the Guidebook

Session Agenda 2-3 pm

<u>2:00</u> Welcome and scene-setter

Cindy Schmidt/Erin Martin

<u>2:10</u> Team scavenger hunt for guidebook lessons

Participants work in small groups, clicking through the guidebook to pull out lessons related to key elements of applications.

2:25 Comparing PI experience to guidebook lessons

With guided questions to foster sharing, address uncertainties and reinforce guidebook messages

2:50 Wrap up and closing

Becca Lewison, SDSU Coastal and Marine Institute Cindy/Erin



THE GUIDEBOOK IN BRIEF

- Web-based resource: synthesizing best practices for developing Earth applications
- Audiences: emerging applied scientists, basic research scientists considering applied work, partners new to NASA
- **People-centered**: features insights from scientists and users passionate about using science to solve today's urgent problems

Key features

Multiple entry pathways	Multimedia content
Easy user interface	Plain language
Downloadable content	Practical tips & insights

Explore: appliedsciences.nasa.gov/guidebook



EARTH SCIENCE APPLIED SCIENCES

EARTH SCIENCE APPLICATIONS GUIDEBOOK

People use Earth science information from satellites and other sources to inform decisions about water, land, agriculture, disasters, health, and more. This guidebook translates decades of experience in applying this information into sharable knowledge and practical guidance. Whether you are new to Earth science applications or already an expert, you will find smart practices, new insights, and a few tips to support your work.

Select a topic and begin exploring_



APPLYING EARTH SCIENCE:

WHAT IT TAKES

DELIVERING SUSTAINABLE APPLICATIONS



USING EARTH SCIENCE TO TACKLE CRITICAL CHALLENGES



USE CASES



TEAM SCAVENGER HUNT: GOOD LUCK!

Instructions

- Gather in your small group.
- Navigate to the guidebook.
- Work independently to scan the sections, identifying lessons on these topics:
 - Communication
 - User engagement
 - Success
 - Data formats
 - Sustainability
- Discuss the lessons with your group. Come to consensus on one lesson for each point.
- Record your lessons in the Padlet.

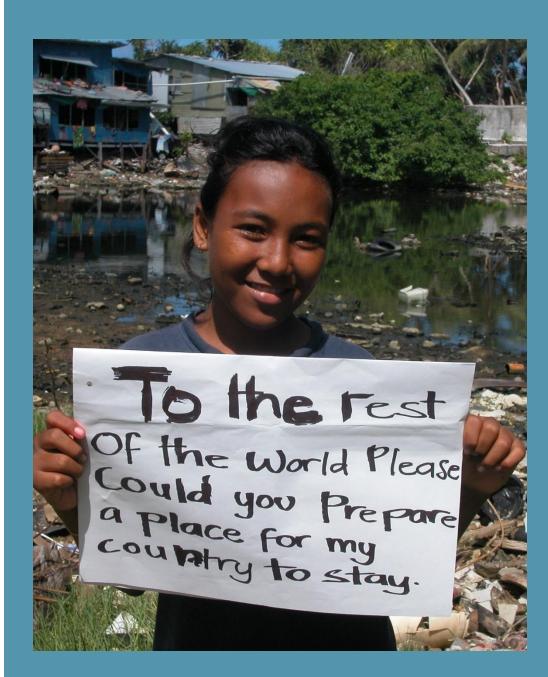
Guidebook link: appliedsciences.nasa.gov/ guidebook

Padlet link: bit.ly/guidebook_padlet

SHARING EXPERIENCE

Topics for discussion

- Did any of these lessons resonate with you or align with an experience you had?
- Did you have an experience not captured here?
- Anything your read or saw surprise you?
- Do you have any uncertainties about anything you read in the Guidebook?
- Any other points to raise?



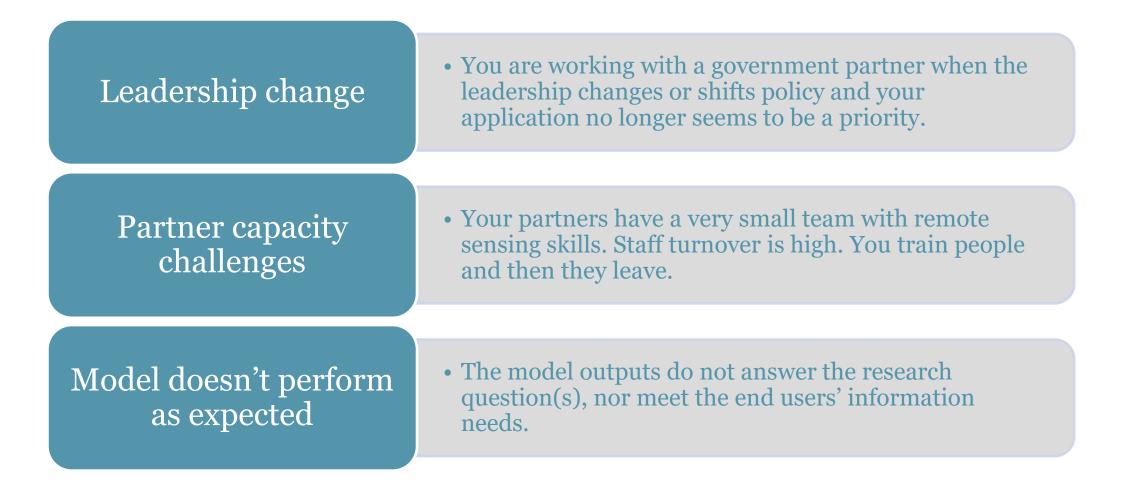
TALES FROM THE FIELD

Becca Lewison, San Diego State Univ, Coastal and Marine Institute



HOW WOULD YOU HANDLE THESE CIRCUMSTANCES?

Things don't always go as planned...

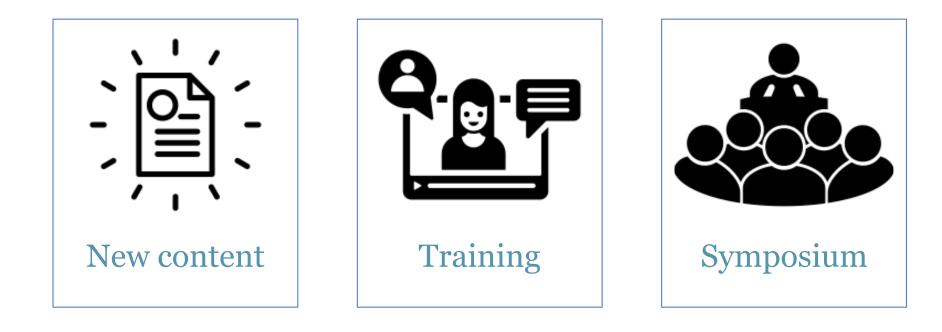


MORE TO COME IN 2023

The guidebook is intended to be a platform for building the Earth Science applications community.

Future plans include:

- A content refresh (late 2022)
- A self-paced online ARSET course (early 2023)
- An applications symposium (late 2023)



GET INVOLVED...

Share with your networks!

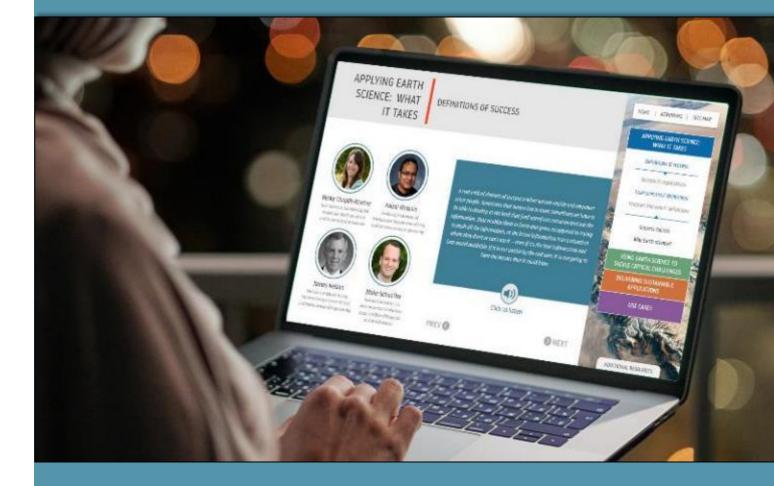
appliedsciences.nasa.gov/ guidebook



VIEW

GUIDEBOOK





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Thank You.

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Learn more about the Earth Science Applications Guidebook at:

https://appliedsciences.nasa.gov/

MEASURING DROUGHT SEVERITY ON THE NAVAJO NATION

USE CASES

