

ICON KEY

Introduction to
Ecological Forecasting



*Intro to
Forecasting*

Understanding Uncertainty
in Ecological Forecasts



*Forecast
Uncertainty*

Using Data to Improve
Ecological Forecasts



*Forecasts &
Data*

Using Ecological Forecasts
to Guide Decision Making



*Forecasts &
Decisions*

Module version: R Shiny or
RMarkdown



START

Does your course emphasize
applications of environmental
science, such as resource
management and decision-
making?

Yes



*Forecasts &
Decisions*

No

Is teaching coding skills
part of your curriculum
goals?

Yes

Do students already have
experience reading and
writing R code?

No

Yes

Choose from



*Forecast
Uncertainty*

or



*Forecasts &
Data*

and assign the independent coding
activity provided with the
Rmarkdown.

Choose from



and use the corresponding RMarkdown
to reinforce module concepts in code.



*Forecast
Uncertainty*



*Forecasts &
Data*

No

Which statement best
characterizes a learning
objective of your course?

Students receive an
overview of
ecological
forecasting.



*Intro to
Forecasting*

Students think
critically about
model
uncertainty.



*Forecast
Uncertainty*

Students
understand how
data can improve
models.



*Forecasts &
Data*

Macrosystems EDDIE

*Environmental Data-Driven Inquiry & Exploration
in Macrosystems Ecology*