
Mapping Locations Using XY Coordinates



RICE

Fondren Library
GIS/Data Center

Remote course logistics

1. Software should already be downloaded
2. Slides, wiki, recording available
3. Unmute yourself to ask a question
4. Type questions into chat
5. Remote access credentials reminder

Objectives

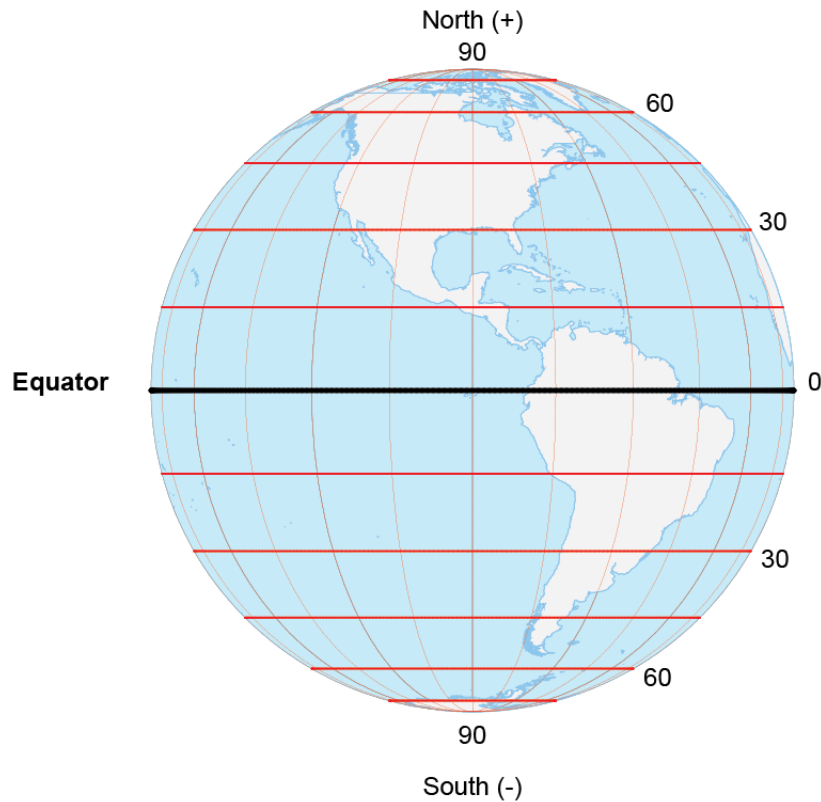
1. Know where to go for further assistance
2. Map locations using longitude and latitude (X,Y) coordinates

Agenda

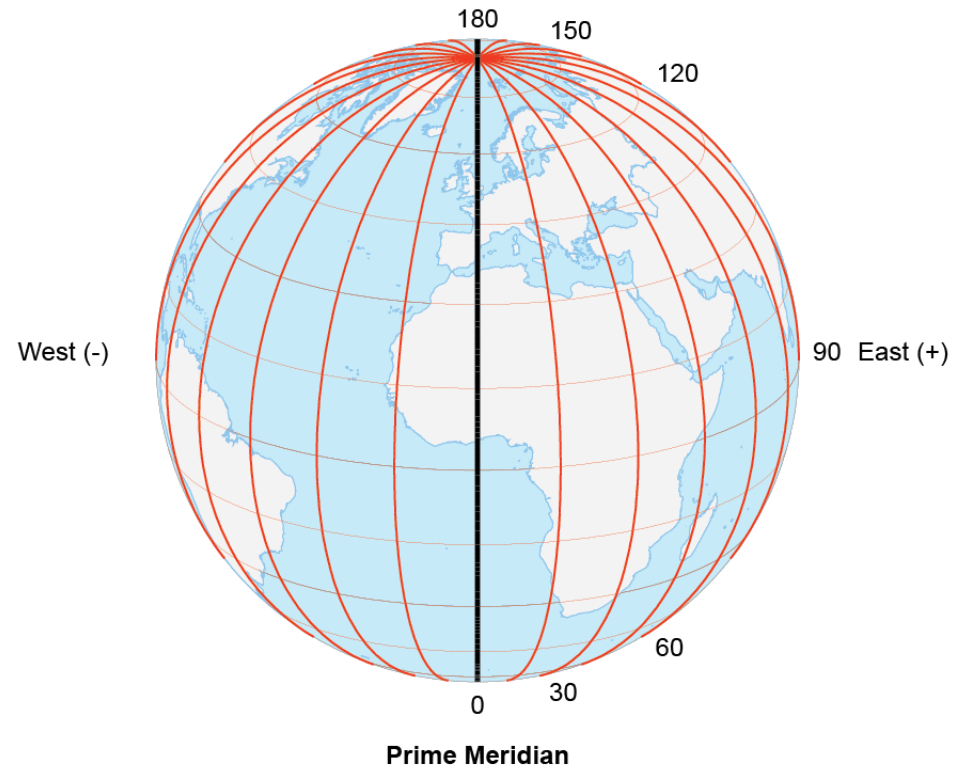
1. Geographic coordinates overview
2. Hands-on workshop

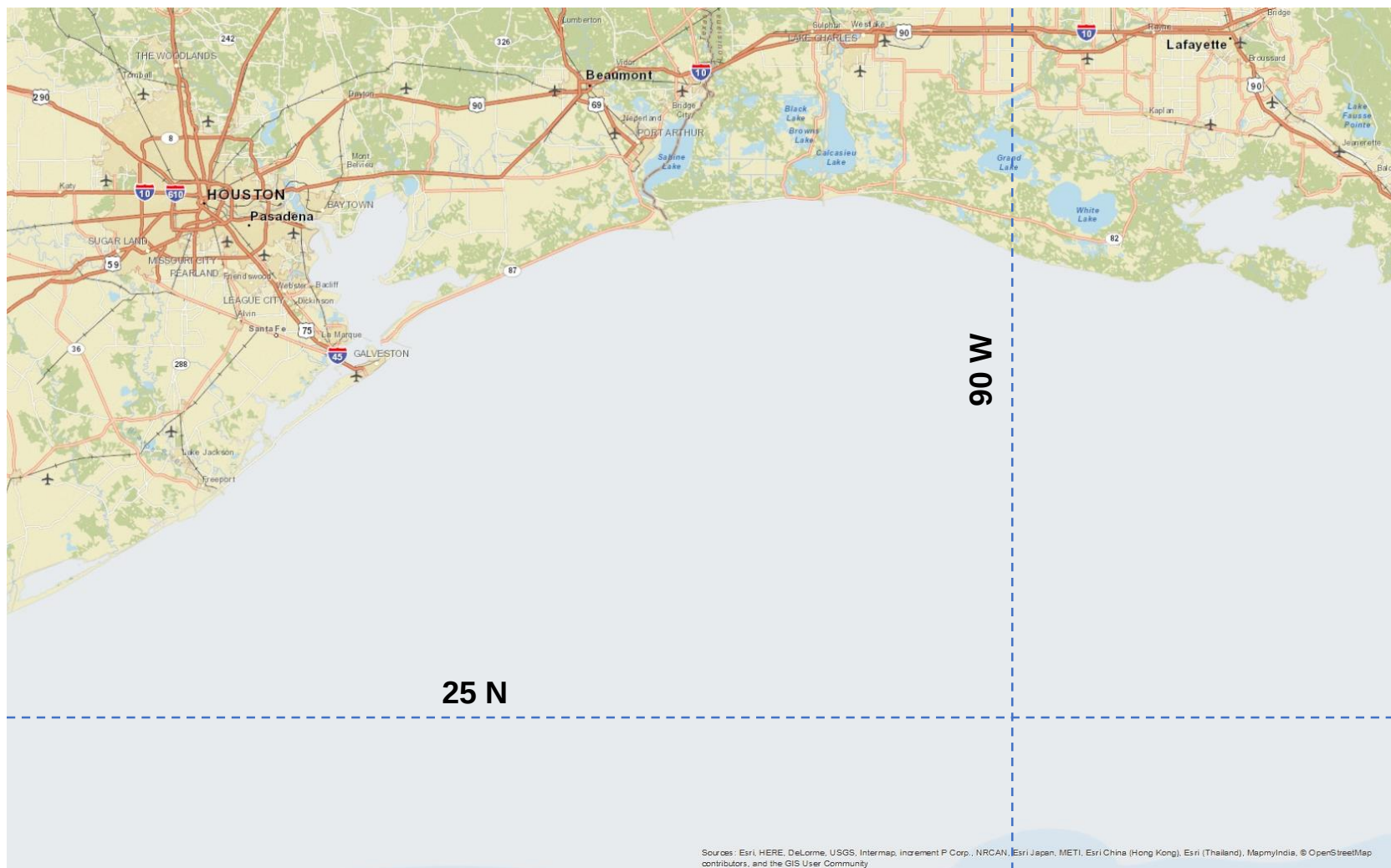
Geographic Coordinate Systems

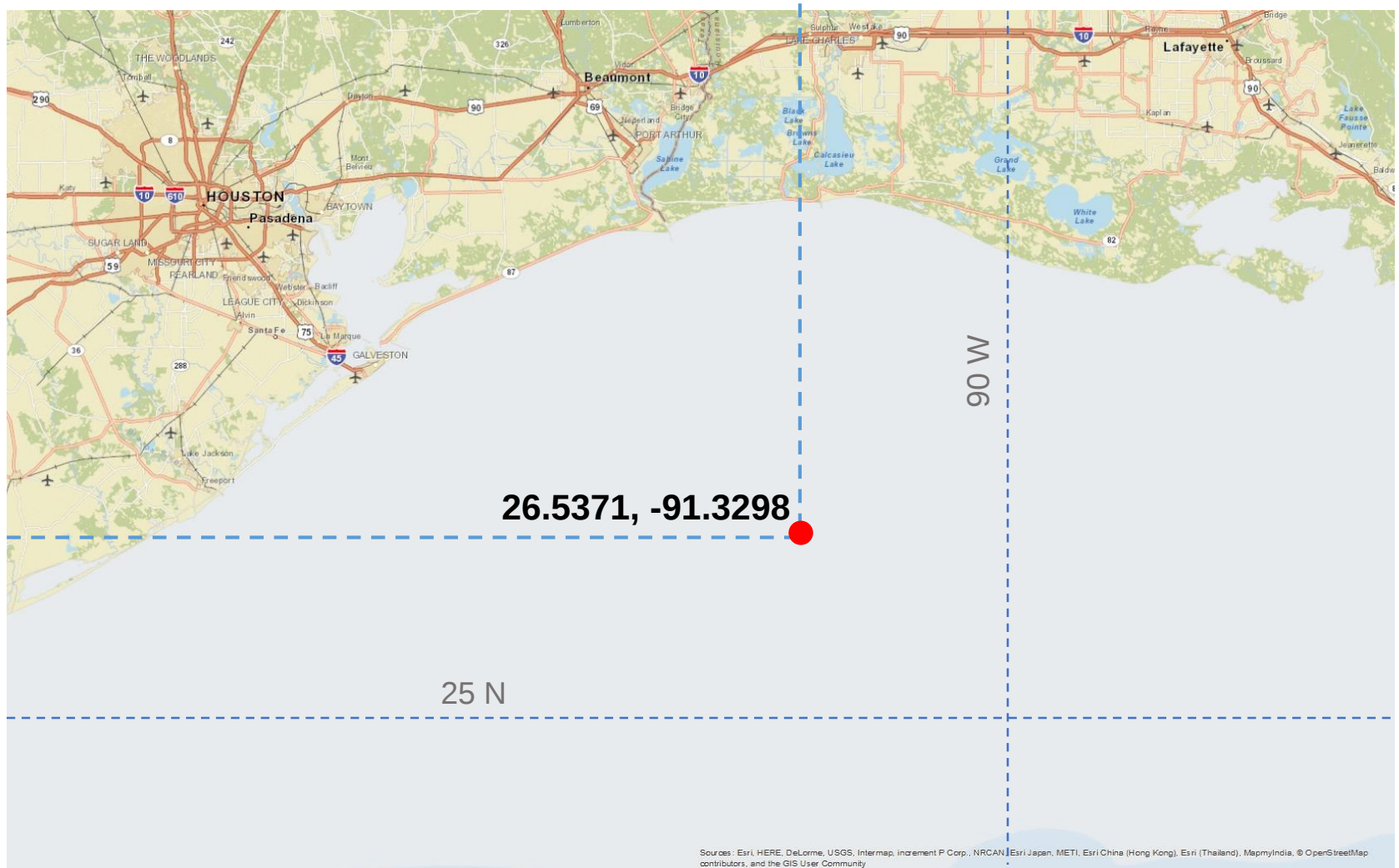
Latitude



Longitude







XY Table Requirements

I. Latitude and longitude must be stored in two separate fields

Location	City	State
61° 13' 5.016" N, 149° 54' 1.0794" W	Anchorage	AK
58° 18' 6.984" N, 134° 25' 10.92" W	Juneau	AK
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XY Table Requirements

1. Latitude and longitude must be stored in two separate fields
2. **Geographic coordinates must be formatted in decimal degrees (DD)**

Latitude	Longitude	City	State
61° 13' 5.016" N	149° 54' 1.0794" W	Anchorage	AK
58° 18' 6.984" N	134° 25' 10.92" W	Juneau	AK
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$$\text{Degrees} + \frac{\text{Minutes}}{60} + \frac{\text{Seconds}}{3600} = \text{Decimal Degrees}$$

Latitude	Longitude	City	State
61.21806	-149.9003	Anchorage	AK
58.30194	-134.4197	Juneau	AK
58.30194	-134.4197	Juneau	AK

XY Table Requirements

1. Latitude and longitude must be stored in two separate fields
2. Geographic coordinates must be formatted in decimal degrees (DD)
- 3. Ideally, each row represents a unique geographic location**

Latitude	Longitude	City	State
61.21806	-149.9003	Anchorage	AK
58.30194	-134.4197	Juneau	AK
58.30194	-134.4197	Juneau	AK

Latitude	Longitude	City	State	Count
61.21806	-149.9003	Anchorage	AK	1
58.30194	-134.4197	Juneau	AK	2

Hands-on workshop

Recording available.

Slides available.

Wiki tutorial available.

Summary

1. Know where to go for further assistance
2. Map locations using longitude and latitude (X,Y) coordinates