

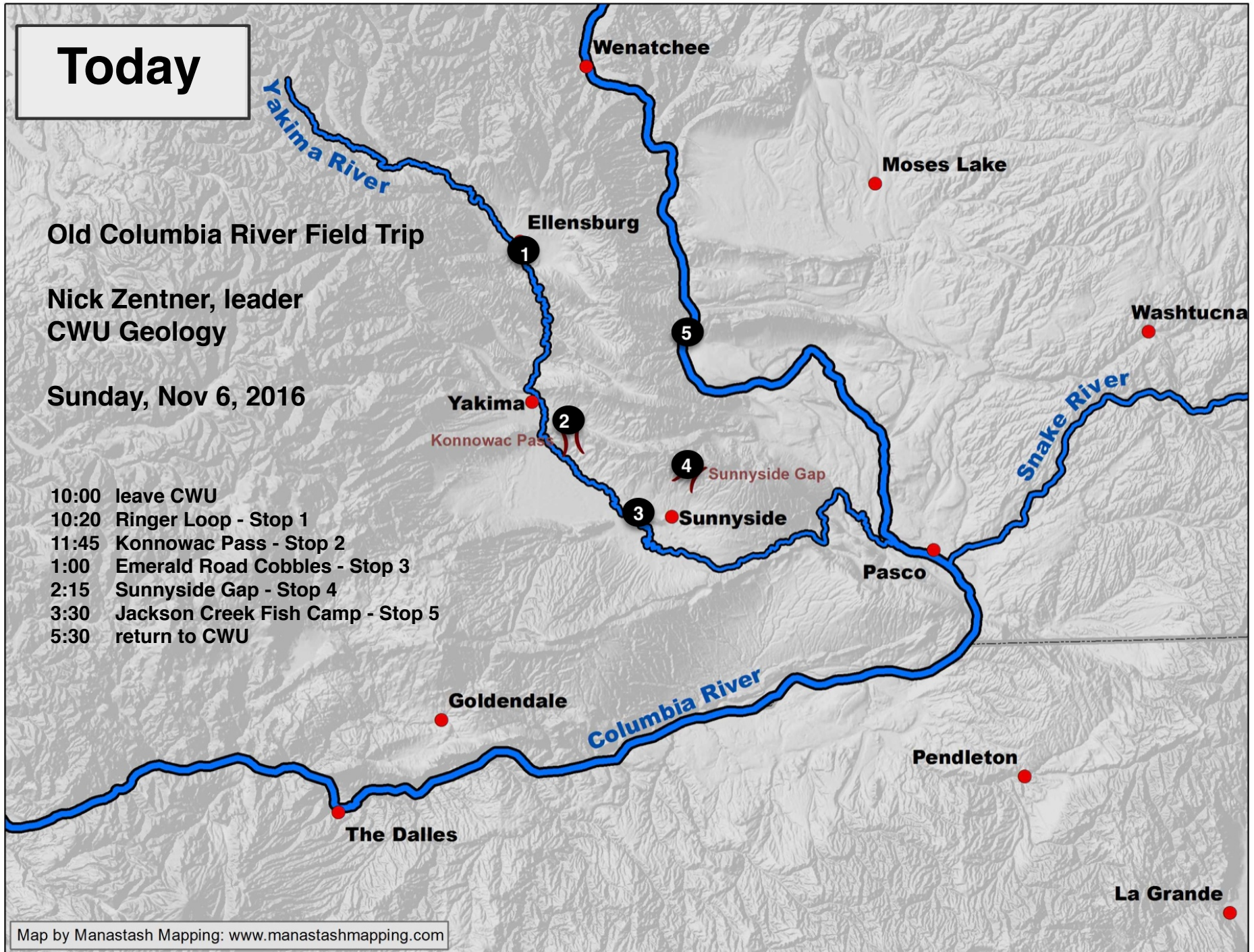
Today

Old Columbia River Field Trip

Nick Zentner, leader
CWU Geology

Sunday, Nov 6, 2016

- 10:00 leave CWU
- 10:20 Ringer Loop - Stop 1
- 11:45 Konnowac Pass - Stop 2
- 1:00 Emerald Road Cobbles - Stop 3
- 2:15 Sunnyside Gap - Stop 4
- 3:30 Jackson Creek Fish Camp - Stop 5
- 5:30 return to CWU



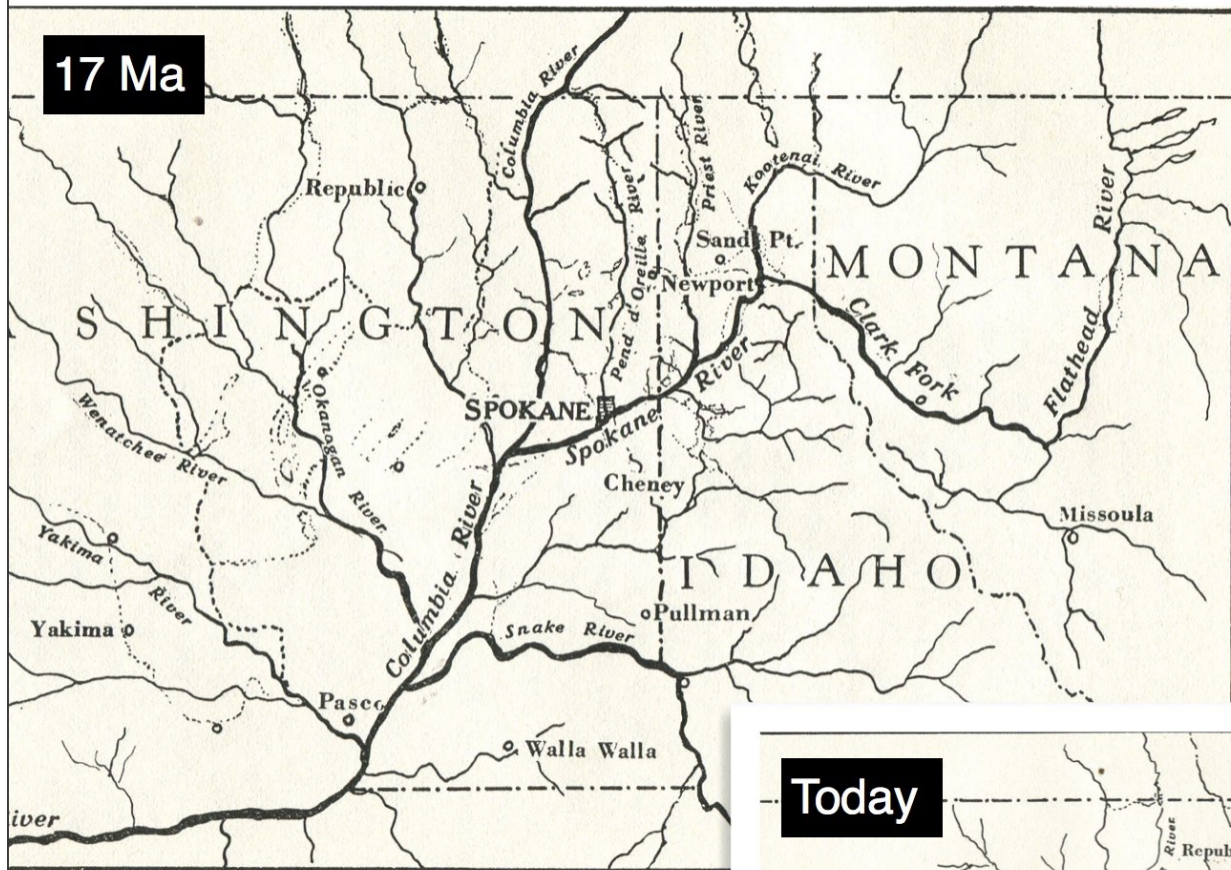
Map by Manastash Mapping: www.manastashmapping.com

Bedrock upstream
on Yakima River



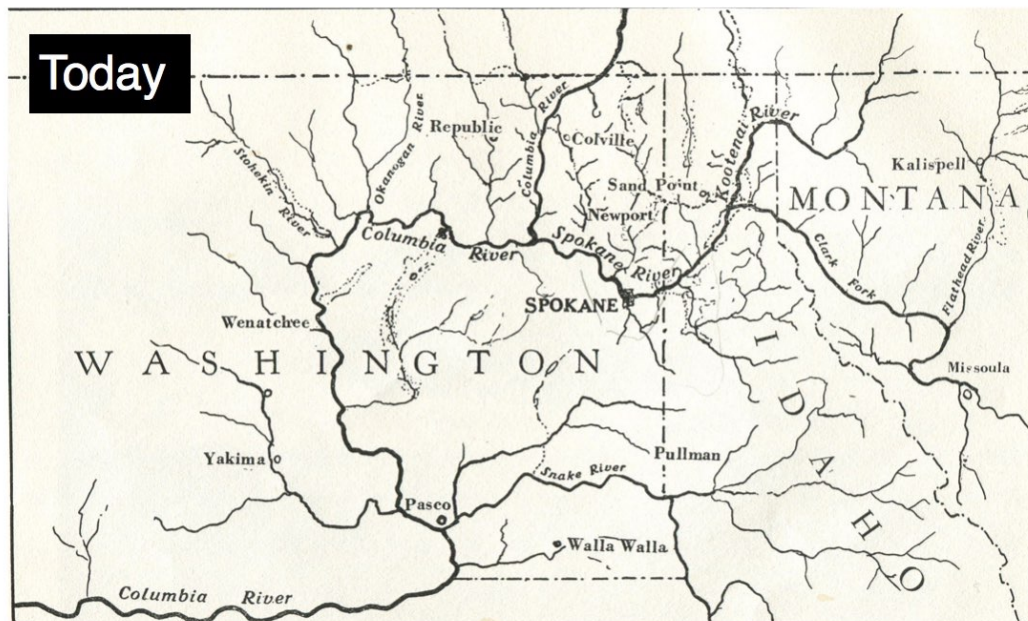


17 Ma

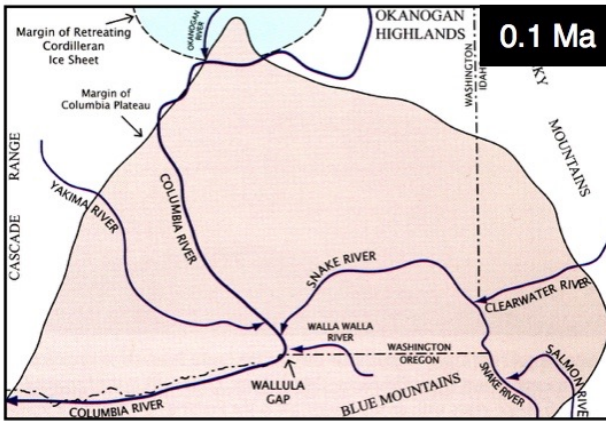
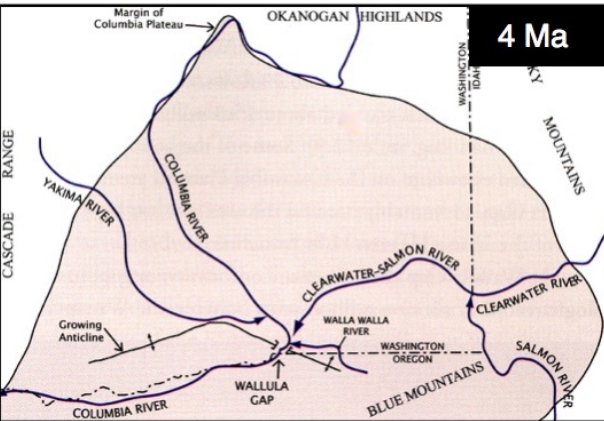
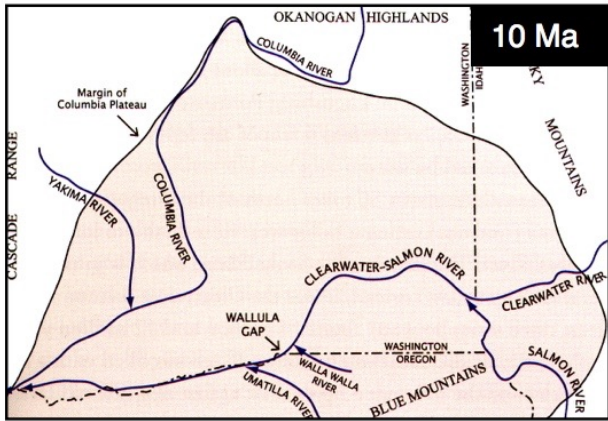
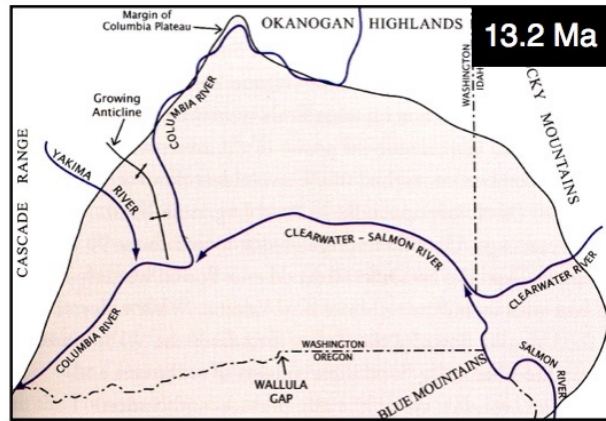
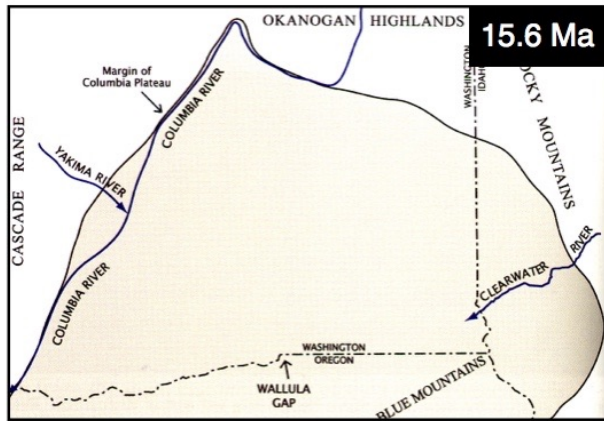
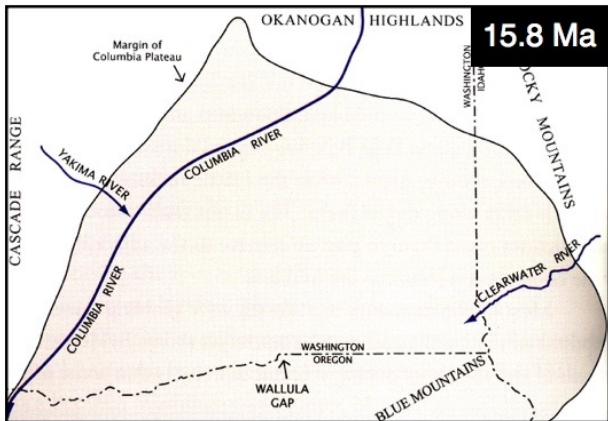


McMacken, 1937

Today

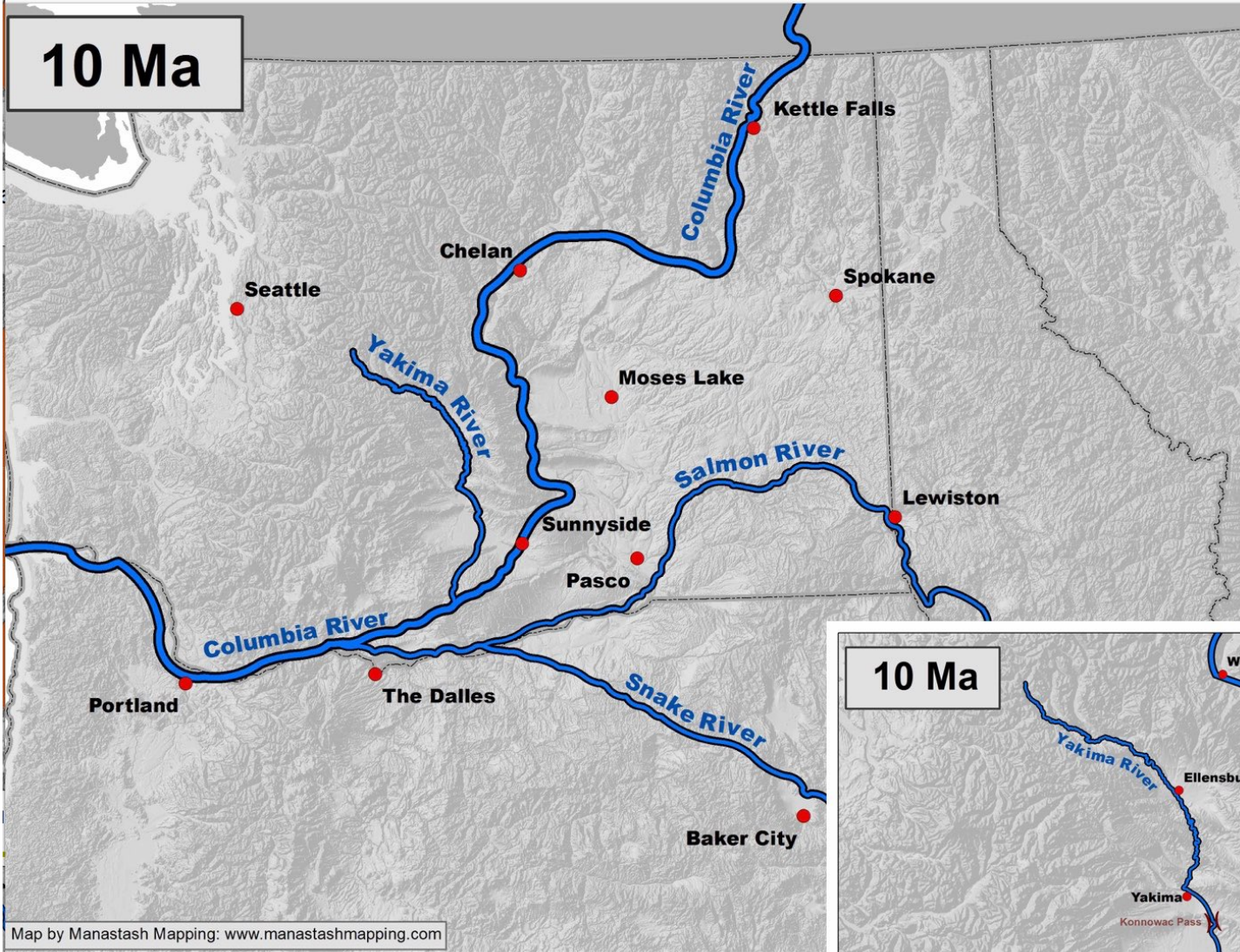


McMacken, 1937



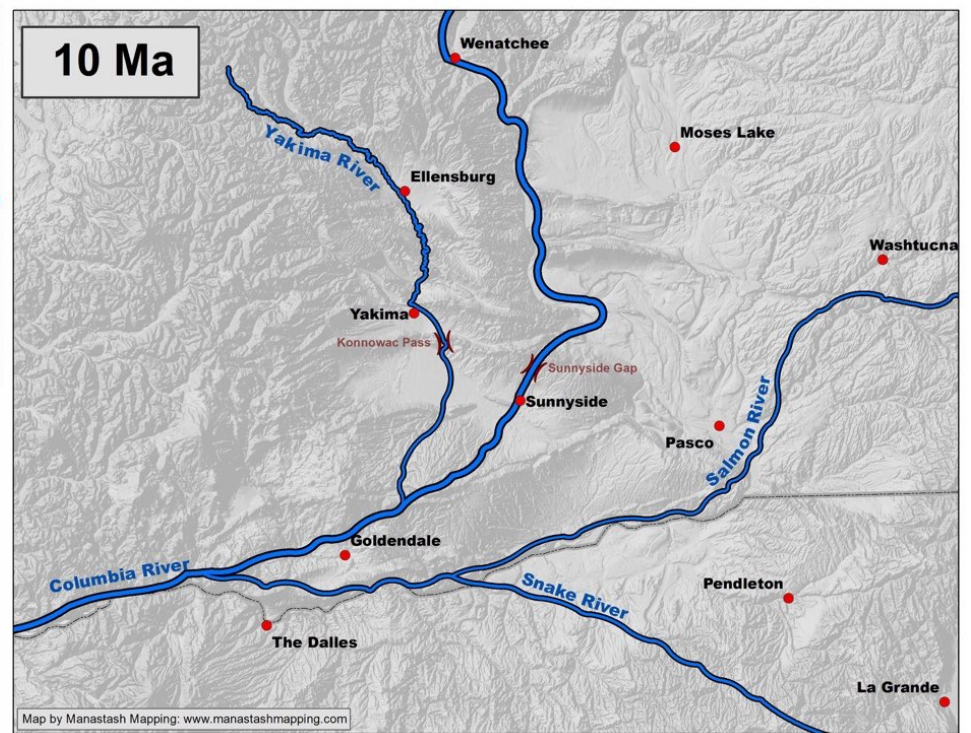
Tolan & others, 2002

10 Ma

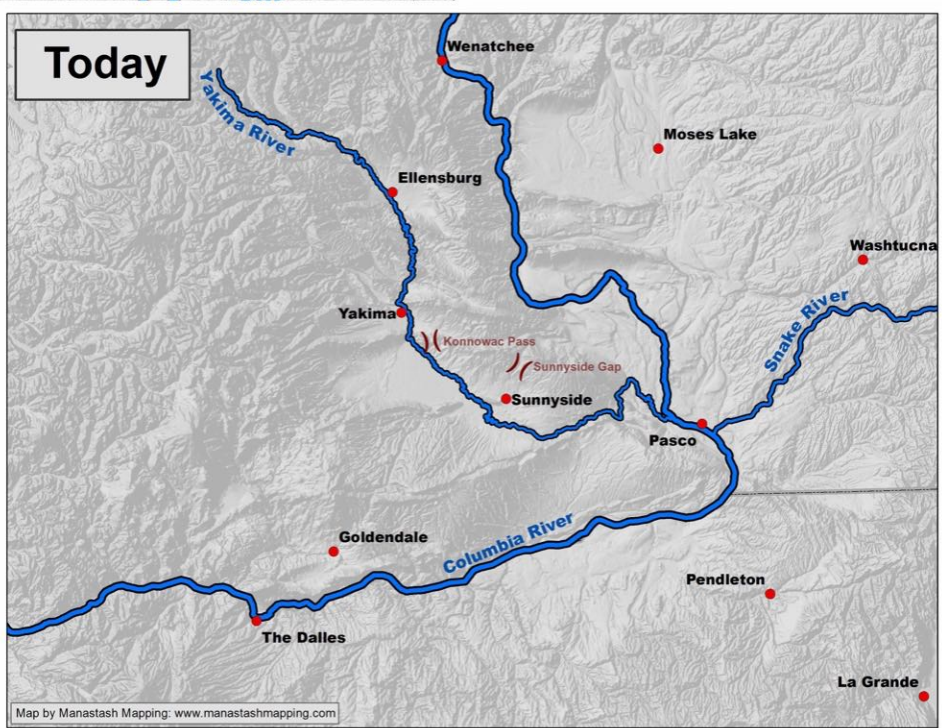
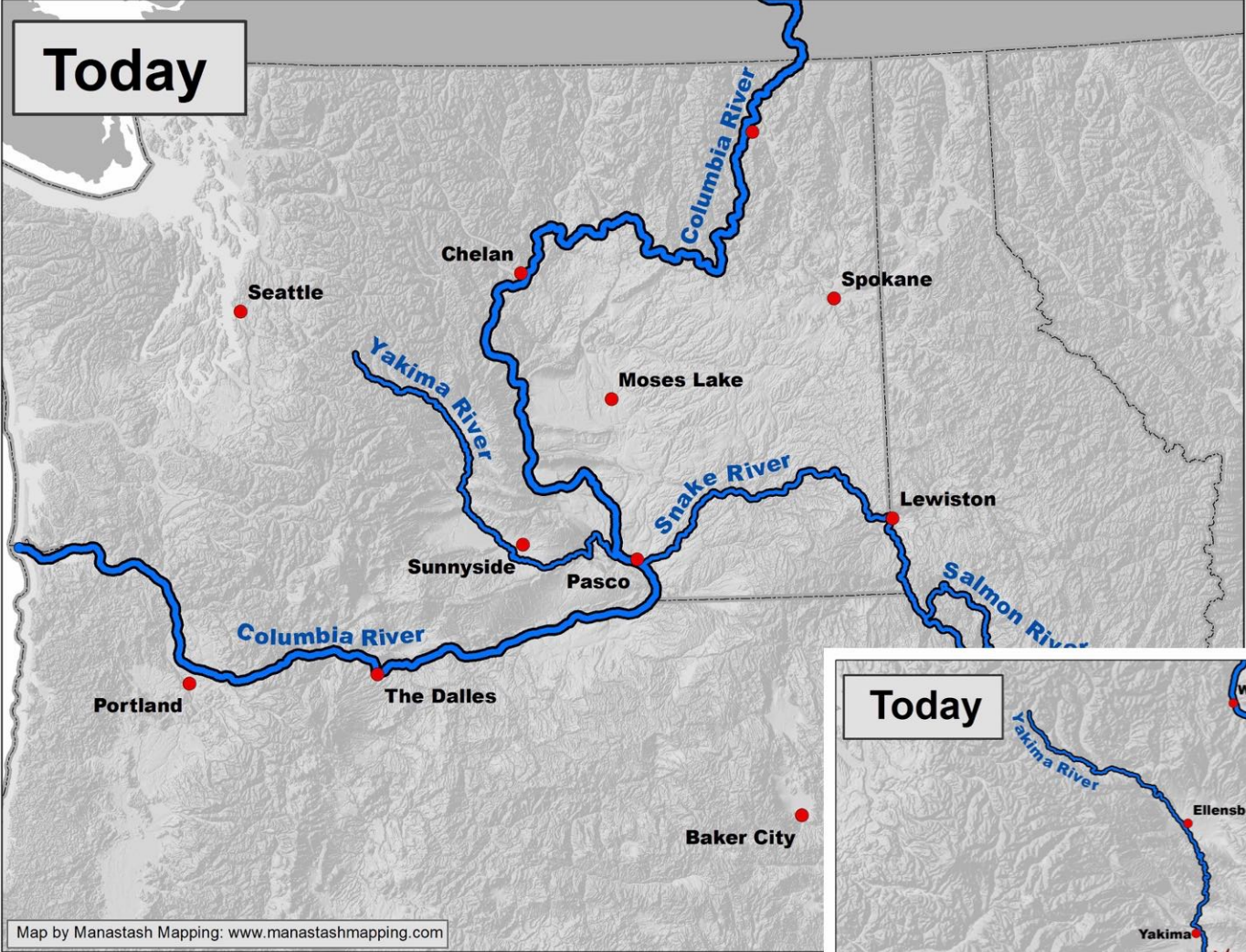


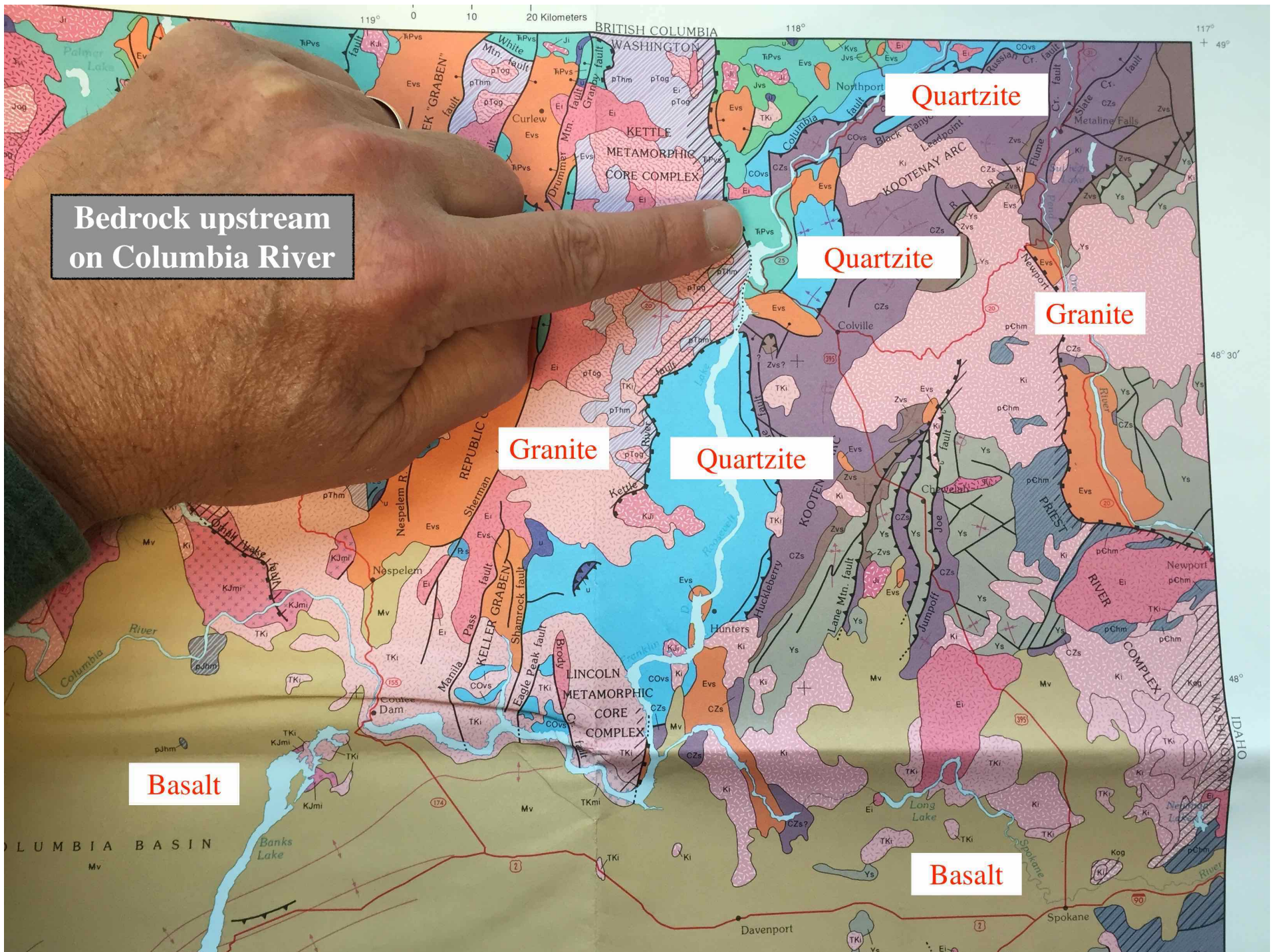
Map by Manastash Mapping: www.manastashmapping.com

10 Ma



Map by Manastash Mapping: www.manastashmapping.com





Bedrock upstream
on Columbia River

Quartzite

Quartzite

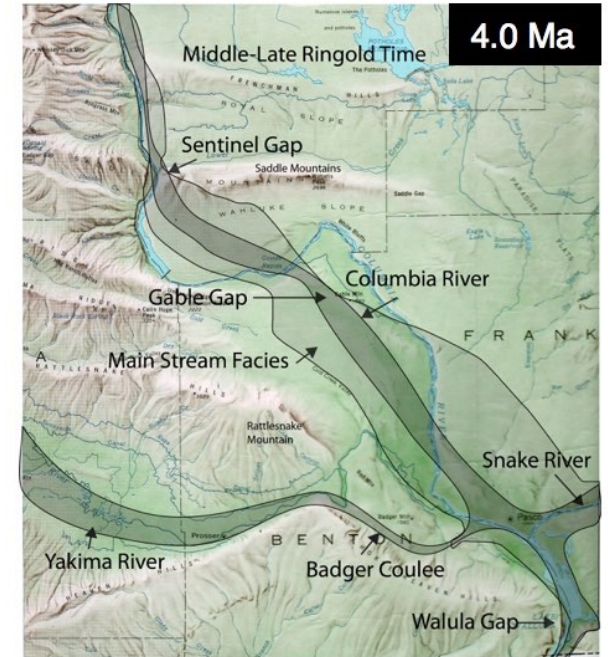
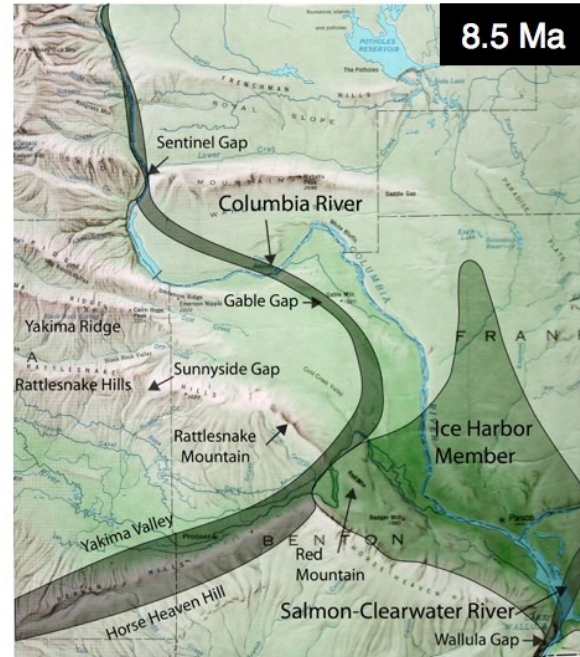
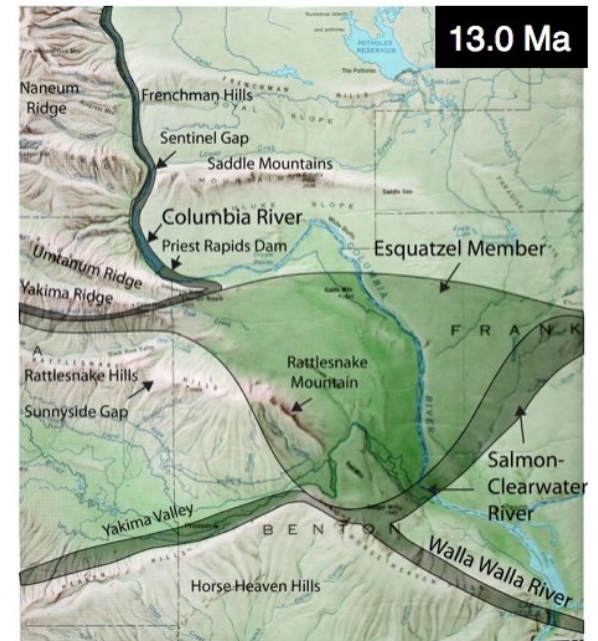
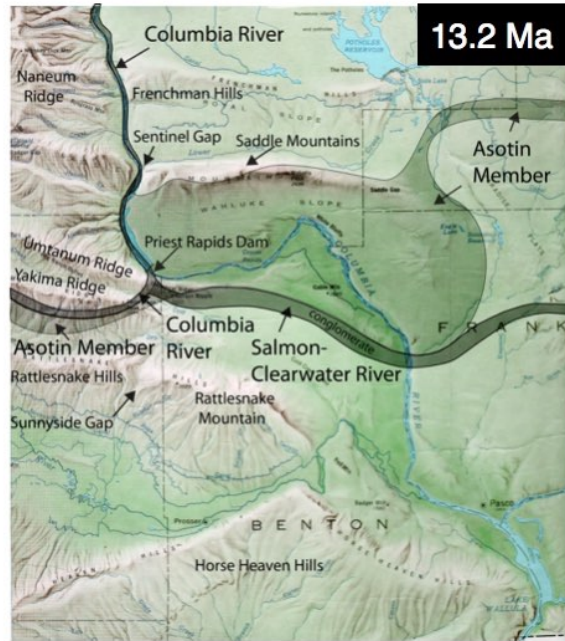
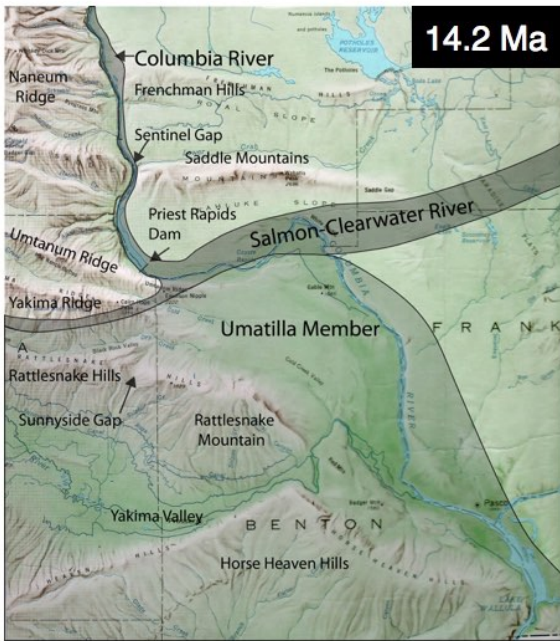
Granite

Granite

Quartzite

Basalt

Basalt



Reidel & Tolan, 2013

10:00 am Leave CWU

S on Canyon Road.....W on Ringer Loop Road
(park at 'Road Closed' sign)

10:20 am Ringer Loop ①

S on Canyon Road.....E on Thrall Road.....
I-82E to Yakima.....Exit 34 on I-82.....
State Road 24 E to Moxee.....S on Faucher Road
(park in small lot at Konnowac Pass)

11:45 am Konnowac Pass ②

S on Konnowac Pass Road.....Right on Yakima Valley Road.....
Left on Donald-Wapato Road.....I-82E to Granger.....
Exit 58 on I-82.....Right on State Road 223 S.....
Left on Emerald Road
(park along right shoulder across from cobbles bank)

1:00 pm Emerald Road Cobbles ③

S on Emerald Road.....Left on Branch Nass Road.....
Right on Nass Road.....Left on Gap Road.....
Right on Cherry Hill Road.....Right on State Road 223 N.....
I-82E to Sunnyside.....Exit 69 on I-82.....
State Road 241N to Sunnyside Gap
(park in lot one mile south of gap w/ 'No Dumping Allowed' sign)

2:15 pm Sunnyside Gap ④

Over gap on State Road 241 N.....Right on State Road 24 E to Vernita Bridge
Cross Vernita Bridge and Left on State Road 243 N
Left at brown sign for Jackson Creek Fish Camp

3:30 pm Jackson Creek Fish Camp (restrooms) ⑤

State Road 243 N to Vantage.....
I-90W to Ellensburg

5:30 pm Return to CWU