



### Let's do some math!

- Slack at Gillard Passage is in the book!
  - May 9<sup>th</sup>: 7:22 a.m. TTF, 1:17 p.m. TTE
- Calculate time of slack at Yuculta Rapids and Dent Rapids

|     | Slack  | Max    | Max Velocity |
|-----|--------|--------|--------------|
| 9   | 12:52a | 3:58a  | -5.1         |
| Wed | 7:22a  | 9:59a  | +4.6         |
|     | 1:17p  | 4:02p  | -3.8         |
|     | 6:30p  | 10:19p | +6.4         |

### Calculating Yuculta Rapids

- Secondary station, based off Gillard Passage
- TTF + 0:25
- TTE + 0:05
- Gillard Passage, May 9<sup>th</sup>
  - Slack, TTF 7:22 a.m.
  - Slack, TTE 1:17 p.m.
- $7:22 + 0:25 = 7:47$  a.m. TTF
- $1:17 + 0:05 = 1:22$  p.m. TTE

### Calculating Dent Rapids

- Secondary station, based off Gillard Passage
- TTF -0:15
- TTE -0:25
- Gillard Passage, May 9<sup>th</sup>
  - Slack, TTF 7:22 a.m.
  - Slack, TTE 1:17 p.m.
- $7:22 - 0:15 = 7:07$  a.m.
- $1:17 - 0:25 = 12:52$  p.m.

### Times of Slack

- From south to north:
- Yuculta 1:22 p.m.
- Gillard 1:17 p.m.
- Dent 12:52 p.m.

### Let's do some (more) math!

- Squirrel Cove to Yuculta Rapids
  - 19nm, 2:38 (19nm/7.2 knots)
- Yuculta Rapids to Gillard Pass
  - 2.2nm, 0:18
- Gillard Pass to Dent Rapids
  - 1.8nm, 0:15

### What time should we leave?

- Aim to arrive at Dent at slack
- Give yourself 0:30 buffer
- Dent slack: 12:52 p.m.
- Time to Dent (including buffer): 3:41
- Time to depart: **9:11 a.m.**

### Transiting the Rapids

- 2:38 from Squirrel Cove to Yuculta Rapids
- Arrive outside Yuculta approx. 11:49 a.m.
  - Look in binoculars and wait for calm
  - Probably around 12:20 p.m.
- This is a turn to ebb, so going early means the current will be flooding against you
- Yuculta: enter 12:20 p.m. (32 minutes early)
- Gillard: 2.2nm at 7.2 knots, arrive 12:38 p.m. (39 minutes early)
- Dent: 1.8nm at 7.2 knots, arrive at 12:53 p.m. (1 minute late)