

2020 and onwards in the Bering Strait

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= Challenges this year
= What we ended up doing
= Looking forward

Funded by US National Science Foundation
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Diomedede Islands,
mid Bering Strait,
Photo: R Woodgate

Usual Cruise ..

Cruise reports:

[psc.apl.washington.edu/
BeringStrait.html](http://psc.apl.washington.edu/BeringStrait.html)

Preliminary plots of:

- CTD sections
- underway data
- mooring results

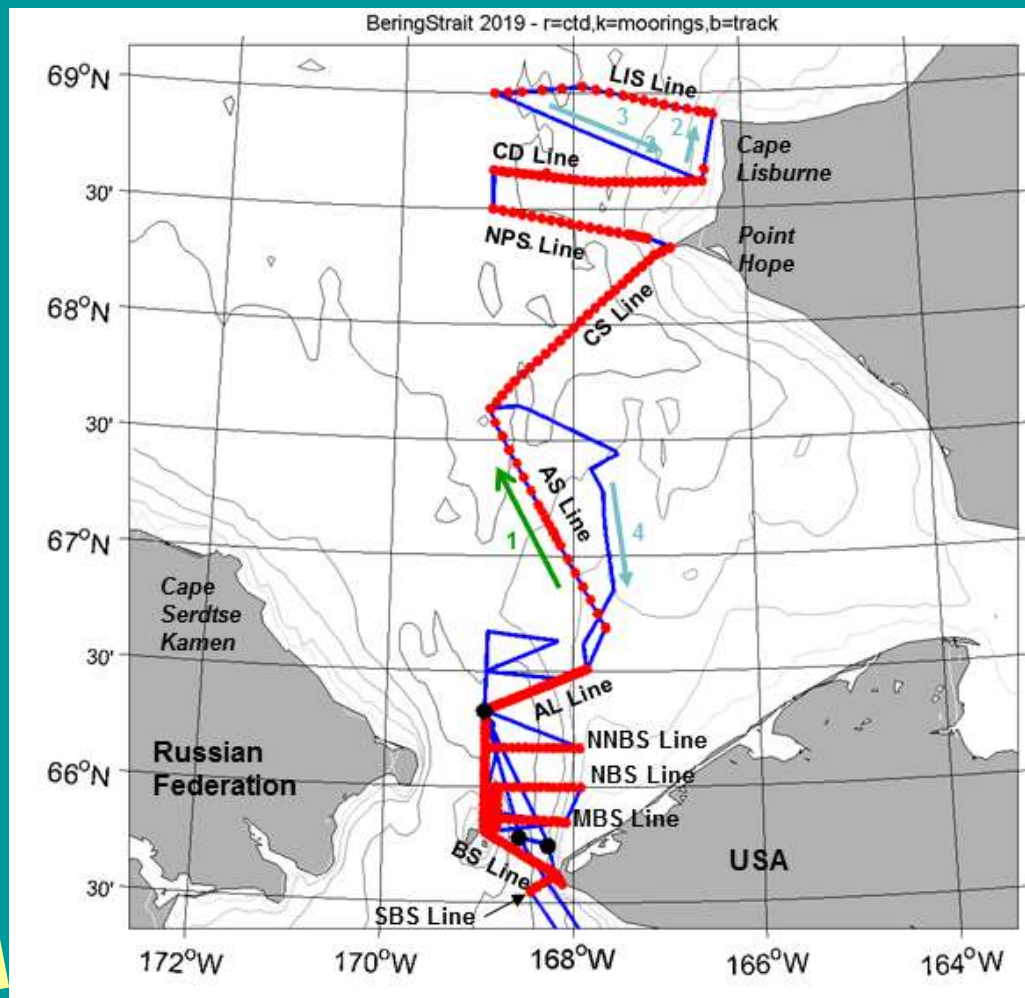


Norseman Maritime

2020 Planning for
Sept, also Norseman2,
now with SVA, Alaska

BERING STRAIT MOORINGS 2019 Cruise Norseman II

5th - 15th September 2019, Nome to Nome,
Chief Scientist: Rebecca Woodgate (University of Washington, USA)



But 2020..

Covid regulations we would have to follow:

- University of Washington
- State of Alaska
- NSF
- City of Nome
- Ship (and what are crew regulations)
- + participants' restrictions

*Many of these
moving targets*

2 weeks in port quarantine pre cruise

- in ROOM quarantine?
- how to do this in a remote port with no local back up?
- charter flights to ship ...

Testing

- which tests? (virus, antibodies)
- WHOSE tests? (effects of false rates)
- optimum testing schedule

What to do if test positive?

- pre cruise
- or during cruise

How many people to take (can't leave someone alone)

How to get people off

Medical and Medivac insurance

Diversion insurance if ship into quarantine (commercial ship)

Learn from the community here – Sikuliaq, Dyson, Healy, Thompson ...

An Unusual Cruise ..

Do we HAVE to go this year?

- new moorings for salinity
- salinity measurements



Norseman Maritime Charters (NMC)

**Ship we trust, deck crew we trust and know
Send simplified moorings (easy to assemble)
Astounding internet (live video calls)**

A REMOTE cruise (no scientists on board)

- Planning, and communications
- What's App video calls to walk through moorings, trouble shoot,.
- AIS (Marine Traffic) to track ship
- communications, planning, communications ..

An Unusual Cruise ..



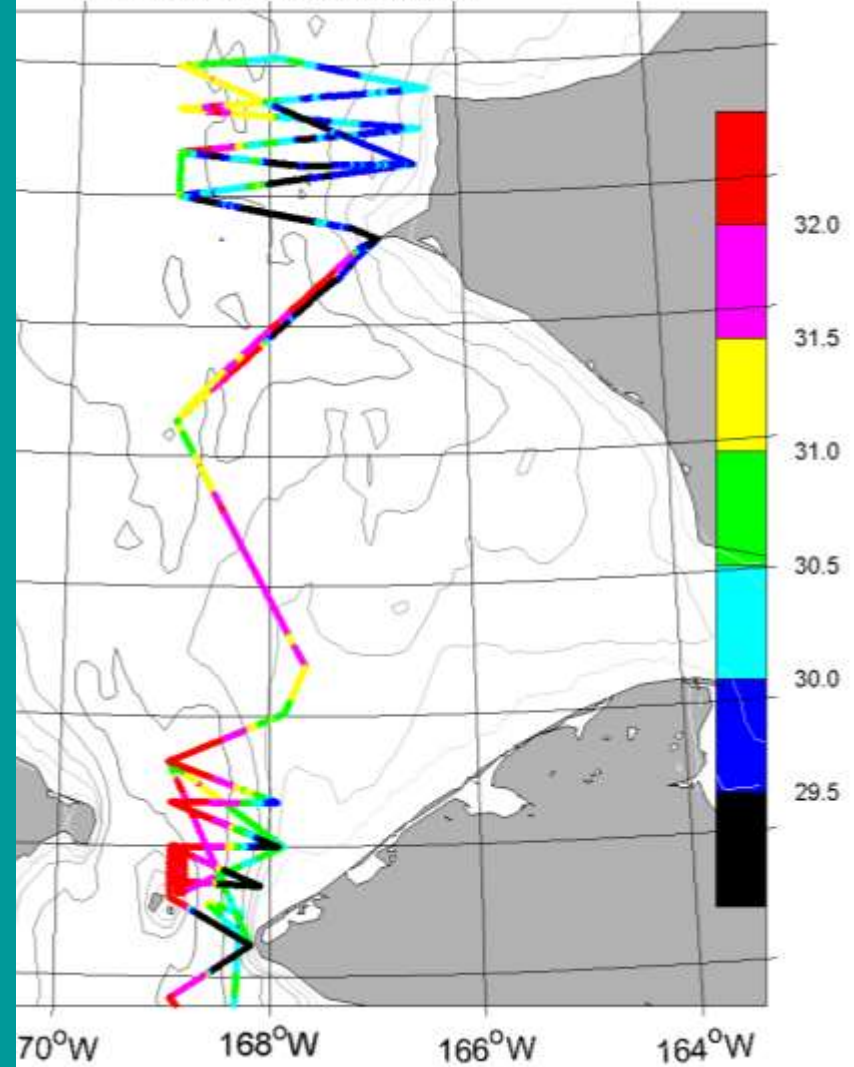
Norseman Maritime Charters (NMC)

4 mooring deployments
1 UAF Glider deployment
LOTS of underway lines
(*TS debugging issues*)



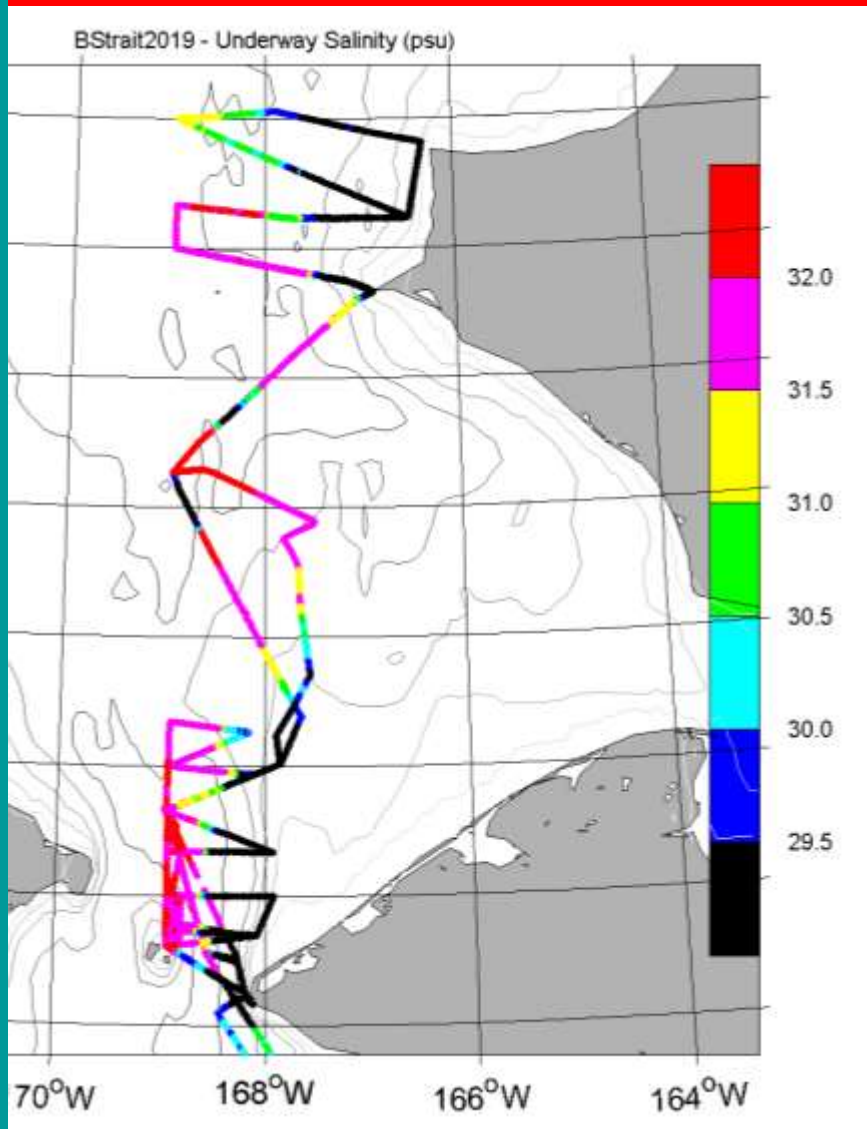
Bering Strait (1st 8th-18th Sept 2020

BStrait2020all - Underway Salinity (psu)

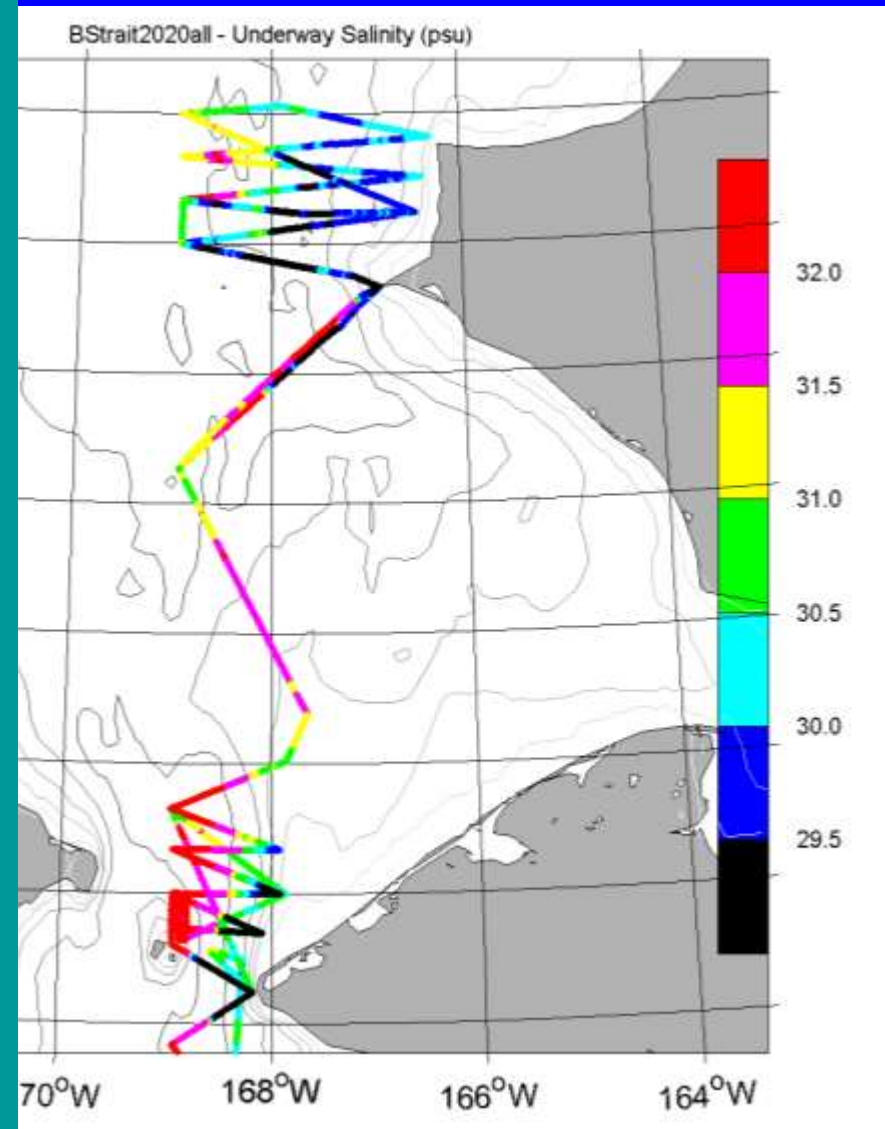


Underway (i.e. Sea Surface) Salinity – 2019, 2020 cruises

Bering Strait 5th-15th Sept 2019



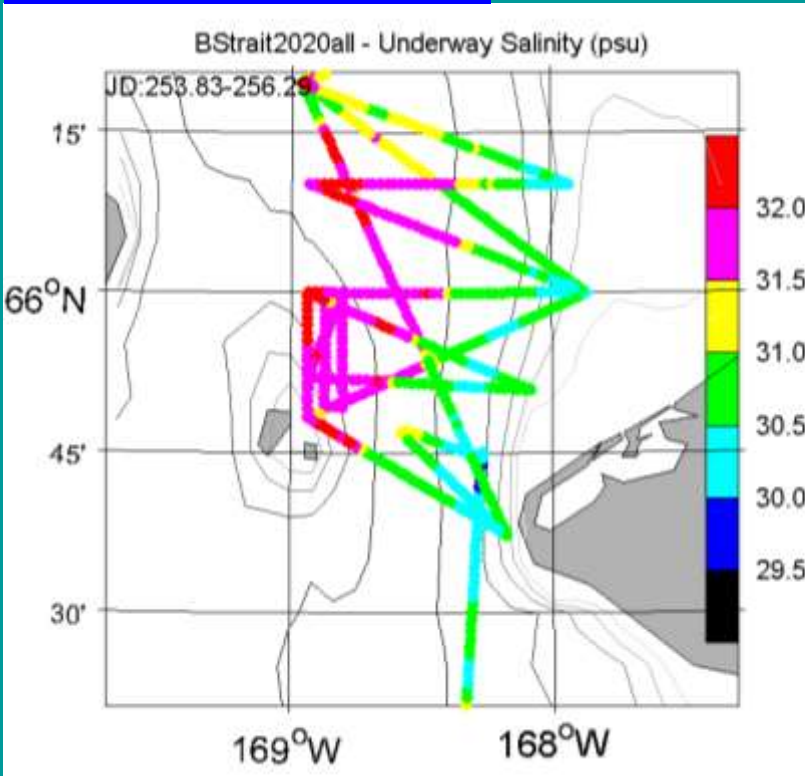
Bering Strait (1st 8th-18th Sept 2020



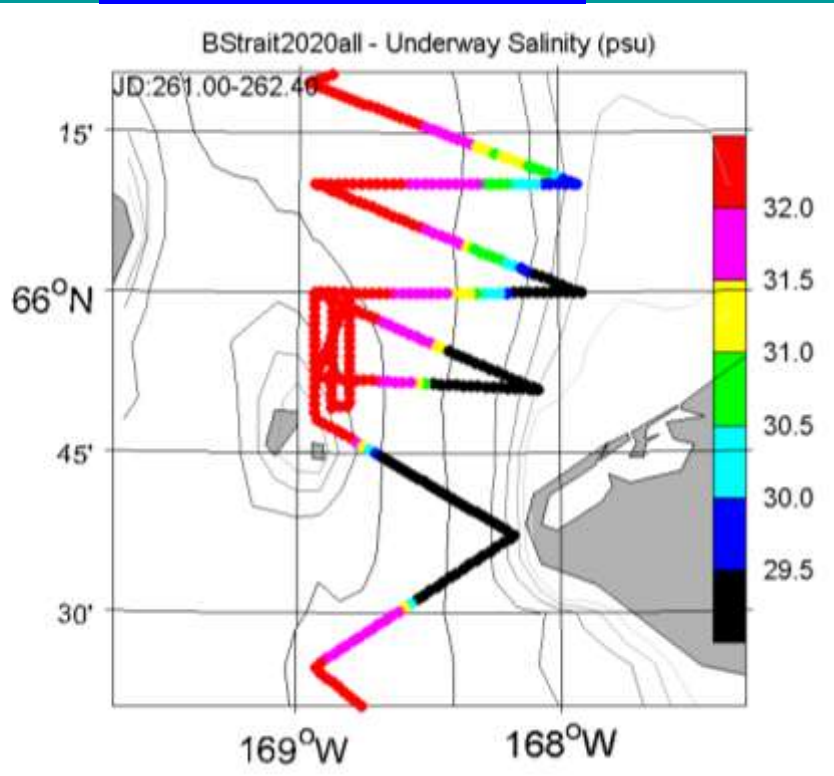
Underway (i.e. Sea Surface) Salinity 2020 – 2 strait surveys

Bering Strait (1st) 8th-18th Sept 2020

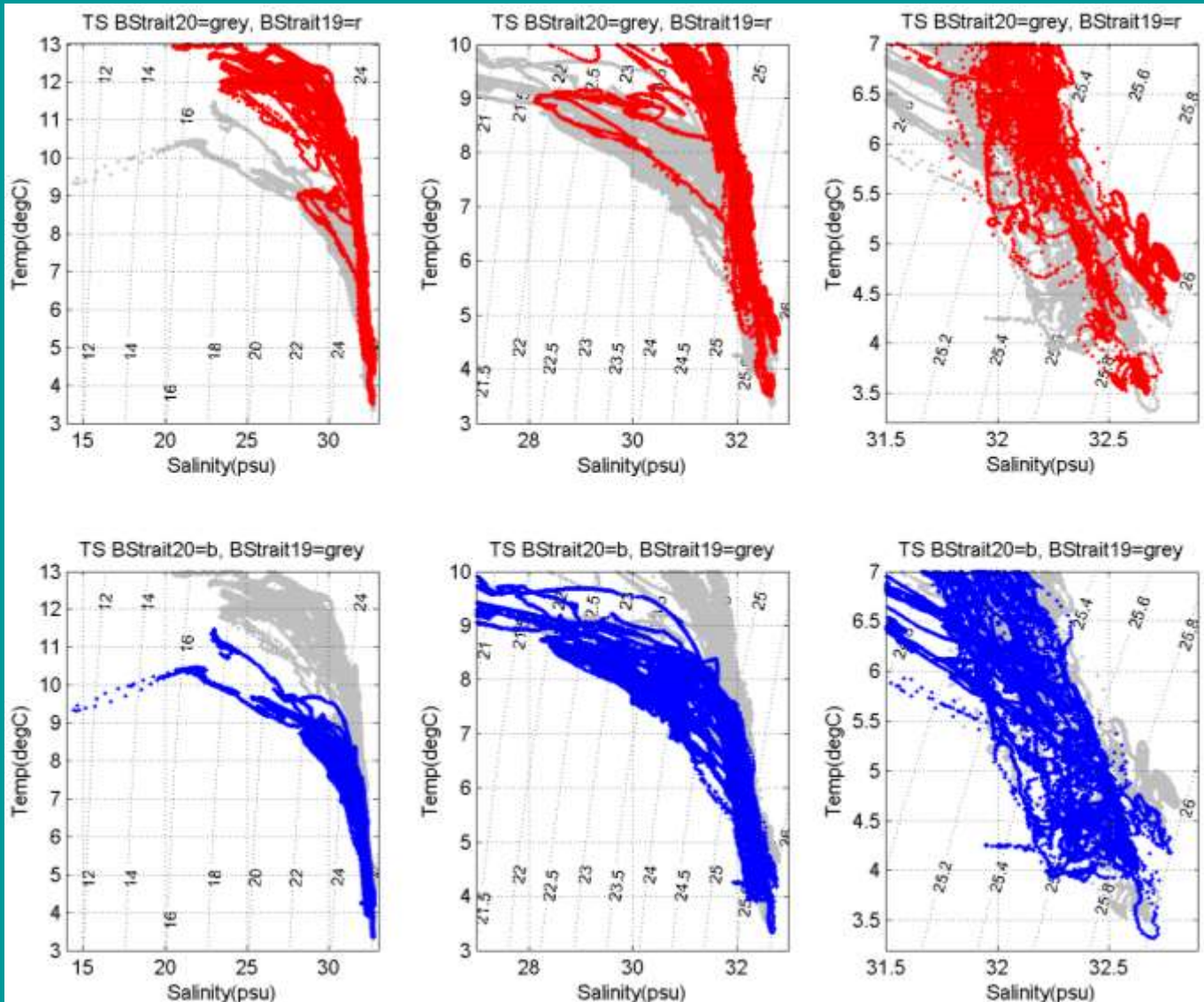
9th – 10th Sept 2020



17th Sept 2020



Underway (i.e. Sea Surface) Salinity – 2019, 2020 cruises



Sept 2019

Sept 2020

Bering Strait 2021 and onwards

**Current NSF funding to recovery of moorings in 2022
i.e., 2021 deployments are funded.**

Writing new proposal for same 3 moorings for 2022 and onwards

Aiming for July 2021 cruise – as likely will have to drag up some moorings
- 6 recoveries
- 3 new deployments

V unlikely to be able to do remotely,

What did we learn as a community on how to get a science team in the field during Covid:

- what quarantine protocols?**
- what testing protocols?**
- what emergency plans?**