List of Links:
Webinar page - download pdf and see recording later today
https://uaf-accap.org/event/marine-cdr/

Jessica N. Cross, Ph.D.
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Intergovernmental Panel on Climate Change (IPCC)
https://www.ipcc.ch/

NOAA Carbon Dioxide Removal Research
https://sciencecouncil.noaa.gov/cdr-strategy/

White paper about NOAA's strategy for CDR research

Key messages

National Marine Sanctuaries guidance

NASEM 2019
https://www.nationalacademies.org/our-work/developing-a-research-agenda-for-carbon-dioxide-removal-and-reliable-sequestration

NASEM 2021 Ocean update
https://www.nationalacademies.org/our-work/a-research-strategy-for-ocean-carbon-dioxide-removal-and-sequestration

Time Article
https://time.com/6290814/ocean-carbon-removal-industry/

Publication – Simulated Impact of Ocean Alkalinity Enhancement on Atmospheric CO2 Removal in the Bering Sea
https://doi.org/10.1029/2022EF002816

Publication - Long-term response of oceans to CO2 removal from the atmosphere
https://www.nature.com/articles/nclimate2729

Additional Links from the chat:

Alaska Ocean Acidification Network website
https://aoos.org/alaska-ocean-acidification-network/
Climate Stripes  
https://showyourstripes.info/  

CAPP  

Chat Discussion:  

00:33:43  John Porterfield:  Will 156ppm CO2 drop, by AG practices, Lal, et al, be discussed?  
https://www.jswconline.org/content/jswc/73/6/145A.full.pdf  
00:37:25  Ali Hayden:  Replying to "Will 156ppm CO2 drop..."  
Thanks John, we’ll open it up at the end for Q&A so you can discuss further if need.  
00:49:15  Danielle Peele:  My group - The Alliance of Water Protectors for the INside Passage- has one! The world's first Tidal Totem Pole Park! Transforming cruise ship waste into net-zero biofuel and providing a monthly dividend to the stakeholders in the ecosystem!  
00:49:54  Hannah Robinson:  Reacted to "My group - The Allia..." with ❤️  
00:51:22  Danielle Peele:  photobioreactors covered with Indigenous art and powered by marine hydrokinetic and solar docks - preserving culture by protecting the food, water, energy nexus and not competing with land  
00:51:58  charmaine Weeks:  Reacted to "My group - The Allia..." with ❤️  
00:52:40  Danielle Peele:  10 tribal leaders over 300 coastal miles  
00:52:40  Aaron Poe:  Dune is with the 'Native' Conservancy :)  
00:53:09  Anna Rose MacArthur:  Could Dunleavy's geological carbon sequestration plans be used to help pump up more hydrocarbons from the ground?  
00:56:04  Danielle Peele:  we can add this to our project! haw'aa!  
00:57:10  Aaron Poe:  I'm wondering about sequestration of carbon into kelp products with 100+ year life spans--something like concrete made in part with kelp. Is that viable/legit sequestration strategy? Related, if kelp derived products can at the same time disrupt the production of products with high GHG emissions (like concrete) seems that could be useful...  
00:57:36  Guy Noll - esri:Folks may be interested in furthering the policy through the nonprofit OceanVisions.org  
00:57:48  Danielle Peele:  Reacted to "I'm wondering about ..." with ❤️  
00:57:56  Erin Shew:  Reacted to "I'm wondering about ..." with ❤️  
00:58:04  Danielle Peele:  Reacted to "Folks may be interes..." with ❤️  
00:58:17  Hilary Landfried:  Reacted to "I'm wondering about ..." with ❤️  
00:59:45  Danielle Peele:  AK Airlines is at 45percent last I checked using algae biofuel  
00:59:45  Ramey Wood:  Reacted to "I'm wondering about ..." with ❤️  
01:00:45  Danielle Peele:  Scripps Oceanography and Woods Hole are interested scientists  
01:01:48  Aaron Poe:  Reacted to "I'm wondering about ..." with ❤️  
01:01:50  Danielle Peele:  AGU has an international ethical framework!
Danielle Peele: I need help with grant writing

Jonathan Kreiss-Tomkins: What are the barriers for Alaska becoming more of a hub of for private-sector ocean-based CDR activity?

Ramey Wood: Reacted to "I'm wondering about ..." with 👍

Aaron Poe: Thank you for this presentation and that answer Jessica--and yes, let's chat! :)

Danielle Peele: Reacted to "What are the barrier..." with ❤

David Allen: Here's a report from the National Academies that weighs in on the issue of concrete and beyond (though doesn't specifically address kelp based products):
https://nap.nationalacademies.org/catalog/25232/gaseous-carbon-waste-streams-utilization-status-and-research-needs

Ramey Wood: Reacted to "Thank you for this p..." with 👍

Aaron Poe: Reacted to "Here's a report from..." with 👍

Ali Hayden: Reacted to "Here's a report from..." with 👍

Hilary Landfried: Reacted to "What are the barrier..." with ❤

Madeline Warner: Reacted to "Here's a report from..." with 👍

Franz Mueter: Estimates of costs & effectiveness of different CDR strategies are highly uncertain/variable, but are critical to inform investment decisions by industry & government. How much of NOAA's efforts (if any) are focused on reducing this uncertainty through experimentation, especially w.r.t. effectiveness?

Ramey Wood: The Wilson Center hosted a “Critical Minerals in the Arctic” event last week,... By chance our presenter caught that, care to share any reflection? Thank you, for your work & for this presentation! https://www.wilsoncenter.org/event/critical-minerals-arctic-forging-path-forward?1689166800

Madeline Warner: Does carbon stored as soil carbon require active/alive plant matter to keep it stored?

Danielle Peele: Replying to "What are the barrier..." trust... Indigenous communities have historically been exploited by outsiders. The cultures of the tribes rests upon the biodiversity of the ecosystem which makes them natural partners for scientists and outside industries to find.

Danielle Peele: Replying to "What are the barrier..." My group is located in southeast Alaska and seeking partnerships with scientists. We want to become a knowledge HUB and there's a big grant 5 -600 million.

Lauren Frisch: One thing I have a hard time wrapping my head around with OAE is the sourcing of material to dump - I've heard of a number of orgs that are collecting / crushing olivine to use in OAE. This makes me really concerned about mining / scalability potential. What do you think is the best potential source for successful OAE / do you think it does have potential to scale without huge terrestrial impact?

Danielle Peele: Replying to "What are the barrier..." Any takers please email XaadasEagle1@protonmail.com

Danielle Peele: Reacted to "Here's a report from..." with 👍
01:14:12 John Porterfield: Replying to "Will 156ppm CO2 drop..."
Thx for response! It's important to consider co-benefits of negative C options. Known land practices increase food and water security, increase drought and flood resilience, boost nutrient content of food, etc. I hope to learn about co-benefits, beyond avoiding climate impacts, of ocean practices.

01:14:23 Danielle Peele: Reacted to "Thank you so much fo..." with 👍

01:14:37 Anna Rose MacArthur: This article shares some of risks to communities located near CO2 pipelines that I found interesting to be aware of as the AK legislature is considering carbon capture: https://www.npr.org/2023/05/21/1172679786/carbon-capture-carbon-dioxide-pipeline

01:15:21 Aaron Poe: Reacted to "This article shares ..." with 👍

01:16:16 Danielle Peele: Any plans for another webinar for public-private partnership formation?

01:16:29 Ali Hayden: The recording will be on our website later today: https://uaf-accap.org/event/marine-cdr/

01:16:41 Ali Hayden: If you are interested in other upcoming webinars, please visit the accap website https://uaf-accap.org/events/

01:16:42 Danielle Peele: Reacted to "The recording will b..." with 👍

01:16:50 Danielle Peele: Reacted to "If you are intereste..." with 👍

01:17:04 Ramey Wood: Reacted to "Any plans for anothe..." with 👍

01:17:14 Darcy Dugan: Replying to "Any plans for anothe..."
The Alaska OA Network will be co-hosting some follow-up webinars looking into some of these CDR strategies. This schedule is still in the planning stage but likely starting in September.

01:17:47 Danielle Peele: Thank you for this webinar!! What a shot in the arm!

01:18:04 Ali Hayden: If you would like to join the ACCAP mailing list and receive announcements about future webinars - http://eepurl.com/dnmlKP

01:18:35 Ali Hayden: Replying to "Any plans for anothe...

Good idea!

01:18:36 Jamie Goen: Excellent presentation and a lot to think about and digest! Thank you, Jessica and Company!

01:19:14 Ali Hayden: Jessica N. Cross, Ph.D.
NOAA Pacific Marine Environmental Laboratory
Seattle WA
jessica.cross@noaa.gov

01:19:35 Danielle Peele: Reacted to "Jessica N. Cross, Ph..." with ❤

01:19:46 Ali Hayden: You can reach out to us over email if you have more questions. Thanks!

01:20:43 Ali Hayden: Thank you everyone for joining us. I’ll let this go over a few minutes. You can see discussion on the video if you need to leave.

01:21:28 Kris Holderied: Thanks Jessica and Ali!

01:21:29 David Allen: Thank you, all!

Madeline Warner: Thank you!!
Hunter Barndt: Thank you!
Richard Thoman: Wonderful info. Thanks!
Alison Agather: Thanks for the great presentation, Jessica!
Sarah Tucker: Thank you!
Hilary Landfried: Thanks!
Derek Williams: 👍
Heather Evoy: Great info, Gunalchéesh
Nikhil Nan: Reacted to "Jessica N. Cross, Ph..." with ❤️
Ramey Wood: Thank you!
Danielle Peele: copy of this recording?
Gabrielle Bonck: thanks!
Danielle Peele: Reacted to "copy of this recordi..." with ❤️
Ali Hayden: Recording later today
https://uaf-accap.org/event/marine-cdr/
Danielle Peele: This was sooooooo terrific!