

**Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER)
February 1, 2023 Project Delivery Team Meeting
Chat Notes**

Chat:

From Andrew Coman to everyone: 12:58 PM
Drew Coman USACE, H&H
from Suzanne Halverson, SFWMD to everyone: 12:59 PM
Suzanne Halverson, SFWMD
from Ann Redmond to everyone: 12:59 PM
Ann Redmond, Brown and Caldwell
from Veronica Fasselt to everyone: 12:59 PM
Veronica Fasselt, USEPA
from Nancy Demonstranti to everyone: 12:59 PM
Nancy Demonstranti, SFWMD Water Supply
from Jordan Tedio to everyone: 12:59 PM
Jordan Tedio, DEP
from Brenda Mills to everyone: 1:00 PM
Brenda Mills SFWMD
from Alicia Magloire to everyone: 1:00 PM
Alicia Magloire, SFWMD
from Ed Swakon to everyone: 1:00 PM
Ed Swakon EAS Engineering, Inc.
from Anonymous User to everyone: 1:00 PM
Lyanne Mendez, HNTB
from Gina Ralph to everyone: 1:00 PM
Gina Ralph, USACE
from Justine Woodward to everyone: 1:00 PM
Justine Woodward USACE NAO
from Alberto Pisani to everyone: 1:00 PM
Alberto Pisani, MDC RER-DERM
from Jaime Graulau-Santiago to everyone: 1:00 PM
Jaime Graulau, USACE
from Meredith Garren FDEP to everyone: 1:00 PM
Meredith Garren, FDEP
from SBellmund to everyone: 1:00 PM
Sarah Bellmund, NPS
from Kiren Bahm to everyone: 1:00 PM
Kiren Bahm, NPS
from Inger Hansen to everyone: 1:00 PM
Inger Hansen - FDEP
from Ramon Martin to everyone: 1:00 PM
Ramon Martin, U.S. Fish and Wildlife Service, RECOVER
from Derek Cox to everyone: 1:00 PM
Derek Cox, FWC
from Carlos Coronado to everyone: 1:00 PM
Carlos Coronado, SFWMD

from Andrea Atkinson to everyone: 1:01 PM
Andrea Atkinson, NPS

from Jenifer Barnes to everyone: 1:01 PM
Jenifer Barnes, SFWMD, IMC

from Rebecca Elliott to everyone: 1:01 PM
Rebecca Elliott, Florida Department of Agriculture and Consumer Services (FDACS), PDT

from Fahmida Khatun to everyone: 1:01 PM
Fahmida Khatun, NPS

from Clay Brown to everyone: 1:01 PM
(Michael) Clay Brown, SFWMD

from Rajendra Paudel to everyone: 1:01 PM
Rajendra Paudel, NPS

from Fawen Zheng to everyone: 1:01 PM
Fawen Zheng, USACE

from Dave Doeblner to everyone: 1:01 PM
Dave Doeblner, Biscayne Bay Marine Health Coalition (NGO/public)

from Laura Reynolds to everyone: 1:01 PM
Laura Reynolds, Town of Cutler Bay, can you record this meeting, I am having to multitask.

from Alya Singh-White to everyone: 1:02 PM
Alya Singh-White, USEPA

from Molly Messer to everyone: 1:02 PM
Molly Messer, Miami-Dade County RER-DERM

from Jennifer Brande to everyone: 1:02 PM
Jennifer Brande USACE Jacksonville

from Irela Bague to everyone: 1:02 PM
Irela Bague, Chief Bay Officer, Miami-Dade County

from Lauren Jonaitis to everyone: 1:02 PM
Lauren Jonaitis, Tropical Audubon Society

from Amanda Kahn to everyone: 1:03 PM
Amanda Kahn, SFWMD

from Kellie Ralston to everyone: 1:03 PM
Kellie Ralston, Bonefish & Tarpon Trust, public

from Christopher Krakowski to everyone: 1:04 PM
Chris Krakowski, SFWMD

from jeremy conrad to everyone: 1:04 PM
Jeremy Conrad, USFWS

from Dallas Hazelton - Miami-Dade County to everyone: 1:04 PM
Dallas Hazelton - Miami-Dade County

from Joan Browder to everyone: 1:05 PM
Joan Browder NOAA Fisheries Nearshore Salinity Subteam of PDT

from Craig Grossenbacher to everyone: 1:07 PM
Craig Grossenbacher, Miami-Dade DERM

from Brian Lockwood to everyone: 1:07 PM
Brian Lockwood - NPS

from Jennifer Nestler to everyone: 1:07 PM
Jennifer Nestler, Cherokee Federal contracted to Everglades National Park

from Molly Messer to everyone: 1:08 PM
I don't think that the recording has started.

from Jennifer John to everyone: 1:09 PM

It has started Molly. Just now, thanks

from Andrea Atkinson to everyone: 1:14 PM

Can we run alternatives at current as well as future SLR even if output is just stage and transect flows?

from Kenneth Ammon to everyone: 1:15 PM

Bird Drive? part of yellowbook...

from April Patterson to everyone: 1:16 PM

@andreaatkinson - we did not include two at current conditions of Round 2 in the modeling request to IMC considering that we have the similar Round 1 alternatives for comparison. We will be evaluating all sea level scenarios on the TSP.

from Laura Reynolds to everyone: 1:18 PM

Andrea, I agree, otherwise we may remove features that will provide positive combined benefits for Biscayne that could otherwise be screened out.

from April Patterson to everyone: 1:20 PM

We will have the ECB 2022.

from April Patterson to everyone: 1:22 PM

We will try to do the sea level comparisons on the revised alts sooner if we can.

from Tom MacVicar to everyone: 1:25 PM

Can you give some specifics about how you plan to use the north Lake Belt? Which lake will receive the water from C-9? How will it get to C-6? The government has very limited rights in this area.

from Andrea Atkinson to everyone: 1:25 PM

@April Patterson, that would be great. There are enough differences, that may make a direct comparison to Round 1 difficult.

from Kenneth Ammon to everyone: 1:26 PM

Why not use Kendall mine in alt 21 and 22 as storage and recharge??

from Laura Reynolds to everyone: 1:27 PM

Bird dive comment: It seems like a missed opportunity not to model the SFWMD conveyance concept, along with one of these alternatives? Has that been considered, it would bring water farther south for more successful conveyance.

from Kenneth Ammon to everyone: 1:29 PM

It seems that the sea level rise results would be integral to defining how much of Model Lands and south coastal wetlands should be targeted for restoration.

from SBellmund to everyone: 1:30 PM

Is Alt 23 using Loveland Slough as a flowway?

from Irela Bague to everyone: 1:34 PM

Would like to know what level of coordination is ongoing with CS&F 216 and Back Bay study for integration of comprehensive benefits.

from Kenneth Ammon to everyone: 1:34 PM

Were any of the NPS alternative suggestions included in these alternatives?

Coordination with C&SF 216 is ongoing. We share information from our study with C&SF. Note C&SF is flood protection while BBSEER is ecosystem restoration.

from Kim Phillips to everyone: 1:36 PM

BBSEER will be part of the FWO for C&SF

from Melody Hunt to everyone: 1:40 PM

@Kim Phillips. I get your point but the two different projects needs careful coordination so as not to propose alternatives that would be at odds with each other. Having the ability to complement each other would be a win-win.

from Karin Smith to everyone: 1:40 PM

Decreased water levels at the coastal ridge structures reduces fresh water head needed to minimize salt water intrusion. It also depends on the water levels at the coastal structures of the those canals.

from Amy Thompson to everyone: 1:41 PM

actually the two projects will have their TSPs at around the same time

from Irela Bague to everyone: 1:42 PM

exactly my point! intergration is the key word.

from Kim Phillips to everyone: 1:42 PM

@Melody Hunt, I am the ETL for both projects, which helps with the coordination. BBSEER is much further along than C&SF. with regard to alternatives development. I have been sharing data from this project with that PDT, plus coordination is occurring directly between team leads.

from Andrea Atkinson to everyone: 1:44 PM

How does regional water movement differ between Alt22 and Alt 24?

from Irela Bague to everyone: 1:44 PM

Are northern alternatives being coordinated with Back Bay study?

from Kenneth Ammon to everyone: 1:46 PM

No Kendall soil sensitivity run?

from Irela Bague to everyone: 1:49 PM

There will be a few charrettes scheduled for March 1-3. I would encourage attending as alternatives are being developed.

from Kenneth Ammon to everyone: 1:51 PM

Latest soils report shows that the Kendall Reservoir is not leaky..

from Dave Doebler to everyone: 1:52 PM

Excellent point.!. Miami-Dade County is getting a lot of pressure to development ag land, and we need to make sure people understand the scope of this project, and what will be off limits.

from Andrea Atkinson to everyone: 1:52 PM

Just heads up, I've emailed in some suggested triggers for the pumps, siphons, WPA water levels in BBCW/L31E area.

from Ramon Martin to everyone: 1:53 PM

In Alt 22 and 23, the operational priority is to deliver minimum flows to the S-18C and then to deliver to the spreader. What is the full capacity of the spreader and will it be able to capture high flow events during the dry season? Moreover, will there be a getaway/overflow at those locations and if so, will those high water discharges affect CSSS-D critical habitat?

from Bradley Foster to everyone: 1:55 PM

Andrea, we received the email but have not had time to read and review it. thank you.

from Craig Grossenbacher to everyone: 2:00 PM

We noticed that recently the levels in the C-100 canal near the coast are so low that they are now below the trigger cut-off for the BBCW pump station at the Deering Estate and this pump has been off for a week or two now as a result. But at the same time, there is water being conveyed through the coastal structure on the C-2 canal. Where is this water coming from and could these observations help us refine BBSEER features or operations to get water south that otherwise would flow to tide via C-2?

from Laura Reynolds to everyone: 2:05 PM

to Sarahs comment: I would add the conveyance feature to an existing alternative that also expands the spatial extent of wetlands and storage.

from April Patterson to everyone: 2:07 PM

If you have any public comments, please enter them in the chat or introduce yourself and provide your comment.

from Laura Reynolds to everyone: 2:13 PM

Can this letter be shared with the entire PDT, I have not seen it.

from Laura Reynolds to everyone: 2:14 PM

The Alger Letter referenced by Amanda Hand

from SBellmund to everyone: 2:17 PM

How can we evaluate habitat improvement with we haven't gotten and reviewed the downstream salinity benefits or impacts?

from Andrea Atkinson to everyone: 2:18 PM

re Habitat units. We are still calculating by zone (Southern Glades, Triangle, Model Lands, BBCW) correct?

from Jennifer John to everyone: 2:19 PM

Apologies- the slide was mistakenly hidden

from Robert Kirby to everyone: 2:24 PM

yes Andrea, we can calculate by zone...

from Andrea Atkinson to everyone: 2:24 PM

Thanks Robert

from Robert Kirby to everyone: 2:25 PM

Sarah...BBSM results for ecosubteam evaluation relating to changes in salinity regimes in the nearshore are imminently going to be released...

from Ramon Martin to everyone: 2:40 PM

If hydrauliv capacities are maintained in coastal structures, will tailwater elevations be adjusted by 1.6 ft?

from Robert Kirby to everyone: 2:41 PM

literature and field observations

from Andrew Coman to everyone: 2:54 PM

Hi Ramon - The tailwater is ignored only for the coastal spillway structures, in order to maintain capacities. Otherwise, the entire model experiences an increase of sea level of +1.6ft relative to the ECB22 for the tidal boundary condition. We will show some results later in the presentation.

from Andrea Atkinson to everyone: 3:04 PM

How is this being applied to coast of Biscayne National Park?

from Andrew Coman to everyone: 3:07 PM

Hi Andrea - This assumption is applied to BNP locations as well, not just ENP

from April Patterson to everyone: 3:07 PM

Andrea I think Fred is showing the FWO AFR in yellow for parts of both parks.

from Carlos Coronado to everyone: 3:08 PM

The Mangroves along BNP have an elevation uffset similar to the scub mangroves in the model land.

The chosen offset is based on the data collected by Kevin Wheelan

from Kenneth Ammon to everyone: 3:10 PM

great job Fred

from Carlos Coronado to everyone: 3:10 PM

Excelent Fred.

from April Patterson (privately): 3:11 PM

I will summarize the comments before sharing new questions at the PDT comment so that I don't assume that they are closed.

from Inger Hansen to everyone: 3:13 PM

Impressive Fred! Kudos to the Mangrove Diversity Team!

from Kenneth Ammon to everyone: 3:16 PM

Do you have a FWOI vs. Existing condition difference?

from Ramon Martin to everyone: 3:19 PM

@Fred, The average annual hydroperiod and average annual stage in the area between the C-111 and US 1 (Southern Glades) are different than that modeled on the west of the C-111 (ENP). Shouldn't the 2085 white zone boundary in this area (Southern Glades) be more like what you estimated for the Triangle Area?

from Kenneth Ammon to everyone: 3:21 PM

In order to be effective, you will need to store some of the surface and ground water to carryover in the dry season

from Carlos Coronado to everyone: 3:23 PM

Ramon, the Southern Glades receives more freshwater than the Triangle Area. That's why we expect a slower mangrove migration in the Southern Glades area relative to the Triangle area

from Andrea Atkinson to everyone: 3:23 PM

It will be important to combine surface flows + groundwater flows + canal flows to really understand what is going on, esp. for Biscayne Bay since groundwater is such an important part of flow.

from Andrea Atkinson to everyone: 3:23 PM

It will be important to combine surface flows + groundwater flows + canal flows to really understand what is going on, esp. for Biscayne Bay since groundwater is such an important part of flow.

from Andrea Atkinson to everyone: 3:25 PM

Does this FWOI include the topography offset?

from Jennifer John to everyone: 3:26 PM

<ftp://ftppub.sfwmd.gov/outgoing/BBSEER/20230201>

from Jennifer John to everyone: 3:26 PM

IMPORTANT note on accessing the ftp site:

Due to current computer system security protocols, simply double-clicking on the link will NOT work. In order to successfully access the files, do the following:

1. be sure to be connected to the internet,
2. copy the ftp link, and
3. paste it in the address bar of your file or directory browser,
NOT into an internet browser such as Microsoft Edge or Google Chrome.

from Gareth Lagerwall Everglades Foundation to everyone: 3:27 PM

is the accretion topography offset applied incrementally, or is the 2085 level applied from the beginning?

from Carlos Coronado to everyone: 3:28 PM

Gareth, accretion offset is not applied incrementally

from bricenoh to everyone: 3:28 PM

FIU's BBOM hydrology and salinity modules for Biscayne Bay are finished and results are encouraging.

Would it be possible for you to provide the data to link it to your model? Thanks

from bricenoh to everyone: 3:29 PM

Henry Briceno

from bricenoh to everyone: 3:29 PM

bricenoh@fiu.edu

from Kenneth Ammon to everyone: 3:31 PM

drew, we need to talk on savings clause, it only applies to existing condition baseline (pre-CERP Baseline) and 2050 recommended plan.

from SBellmund to everyone: 3:35 PM

April could you send the chat out to the team today after the meeting when you send the presentation slides please?

from Angela Montoya to everyone: 3:36 PM

Does it mean that there are not restrictions for canal stages (not maintained)?

from SBellmund to everyone: 3:38 PM

Is there going to be a written summary of the assumptions and the proposals for the topographic increases and how they are being applied to the RSMGL, with references be available soon? in the few weeks?

from Angela Montoya to everyone: 3:48 PM

What would happen if the tidal is higher than maintained canal stage?

from Andrew Coman to everyone: 3:49 PM

Angela - There would be increased flood risk, we will cross that bridge when we model USACE High curve

from Angela Montoya to everyone: 3:49 PM

Thanks!

from Ramon Martin to everyone: 3:55 PM

We will need the RSM-GL difference maps to the ECB22 for the TSP and ESA Biological Assessment.

from SBellmund to everyone: 3:56 PM

Thank you everyone!