

**From:** Merluccio, Juliana  
**To:** Thomas, Sue; BrownScott, Jennifer  
**Subject:** Fwd: Lidar data for DNWR?  
**Date:** Tuesday, February 19, 2019 11:03:32 AM

---

Request NOAA to conduct bathy survey...

----- Forwarded message -----

From: **Hoy, David** <david\_hoy@fws.gov>  
Date: Tue, Feb 19, 2019 at 10:59 AM  
Subject: Re: Lidar data for DNWR?  
To: Merluccio, Juliana <juliana\_merluccio@fws.gov>

Thanks for the update. I think there might be a way to request that NOAA collect multibeam bathymetry at the refuge, we did that for Guam NWR once, we requested that the submerged parts of the refuge be mapped and they put it on their schedule and actually did the work for free.

Dave

-----  
David Hoy  
Lead Cartographer, Division of Realty & Refuge Information  
U.S. Fish and Wildlife Service  
911 NE 11th Ave.  
Portland, OR 97232-4181

Work Phone: 503-231-2230  
Mobile Phone: 503-807-7574  
Fax: 503-231-6161

On Tue, Feb 19, 2019 at 10:46 AM Merluccio, Juliana <juliana\_merluccio@fws.gov> wrote:

Hi Dave,  
Just wanted to let you know that we've scrapped the elevation data because it doesn't seem like there was any very recent bathymetric surveys for the Bay. And what was available was in NADV88 and we needed it in MLLW. Before I figured this all out I was able to convert the NetCDF but I had to do the conversion in ArcPro and then was able to open the raster in ArcMap. For whatever reason, every time I tried the exact same process in Arcmap it failed as output is empty.

Thanks for your help.  
Julie

On Tue, Feb 12, 2019 at 4:19 PM Merluccio, Juliana <juliana\_merluccio@fws.gov> wrote:

Gotcha, I know you are also probably busy with post-shutdown stuff also. Apparently there are some FWS recommendations in regards to tide level, eelgrass and aquaculture so it would be great to add this info to our maps. I appreciate any help you can give. I'll try this and get back to you tomorrow.

Have a good evening,  
Juliana

On Tue, Feb 12, 2019 at 2:48 PM Hoy, David <david\_hoy@fws.gov> wrote:

Juliana, I'm traveling this week so it's going to be tough for me to devote much time to helping you resolve this, we might have to do it in fits and starts, my apologies. There is a way to add netcdf files into arcgis, try one of these and let me know if you find success..

<http://desktop.arcgis.com/en/arcmap/10.3/manage-data/netcdf/reading-netcdf-data-using-geoprocessing-tools.htm>

Dave

-----  
David Hoy  
Lead Cartographer, Division of Realty & Refuge Information  
U.S. Fish and Wildlife Service  
911 NE 11th Ave.  
Portland, OR 97232-4181

Work Phone: 503-231-2230  
Mobile Phone: 503-807-7574  
Fax: 503-231-6161

On Tue, Feb 12, 2019 at 11:56 AM Merluccio, Juliana <juliana\_merluccio@fws.gov> wrote:

Hi Dave,  
I checked out that website and it doesn't seem to be what we need. What we were actually looking for is bathymetry of Dungeness Bay, we want to figure out where certain tide levels would be, namely +5, +3 and -2ft. I found [this](#) Bathymetry data from NOAA but not much data is available for the Bay. I downloaded what was available but the files are in .nc (NetCDF?) and I can't seem to convert them to a raster. I also have a DEM hillshade file but when I tried to make contours they seemed off. I haven't worked with elevation data much so

I'm not very confident in the process, Jennifer and Sue need this info by Thursday so I don't have much time to dive into the web on this. Can you provide any assistance or guidance? I did look through the FWS geospatial homepage, the GIS X drive and our data for bathymetry layers but I can't find anything.

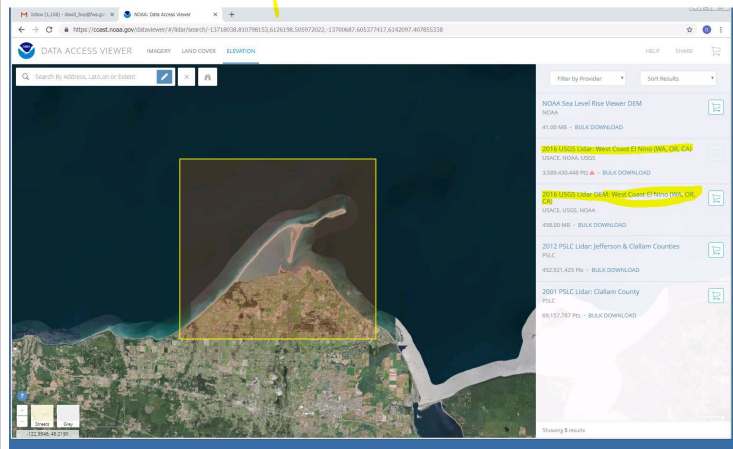
Thanks for your time and consideration.

Juliana

On Tue, Feb 5, 2019 at 2:23 PM Hoy, David <[david\\_hoy@fws.gov](mailto:david_hoy@fws.gov)> wrote:

Sue, the NOAA digital Coast site has 2016 LIDAR/DEM data sets ready for download. We don't have this one file yet, we do have the 2012 lidar for the Dawley tract tho.

<https://coast.noaa.gov/dataviewer/#/lidar/search/-13718038.810798153,6126198.505972022,-13700687.605377417,6142097.407855338>



Dave

David Hoy  
Lead Cartographer, Division of Realty & Refuge Information  
U.S. Fish and Wildlife Service  
911 NE 11th Ave.  
Portland, OR 97232-4181

Work Phone: 503-231-2230  
Mobile Phone: 503-807-7574  
Fax: 503-231-6161

On Tue, Feb 5, 2019 at 1:37 PM Thomas, Sue <[sue\\_thomas@fws.gov](mailto:sue_thomas@fws.gov)> wrote:

Hi there Dave,

We are working on a briefing for the RD on a proposed aquaculture project on Dungeness NWR and are looking for the most complete and up-to-date Lidar data, particularly for the south/harbor side of Dungeness Spit. I seem to remember speaking to you about a project to collect that data on the refuge a few years ago, but can't recall when that was or who collected it. Do you know?

If so, Juliana Merluccio, or star GIS specialist, is working on that portion of the presentation and currently searching for info online. Can you direct her to the best database?

Thanks,  
Sue

Sue Thomas  
Wildlife Biologist  
Washington Maritime NWRC  
715 Holgerson Rd  
Sequim, WA 98382  
360-457-8451

--

Juliana Merluccio  
Biological Technician  
Washington Maritime NWRC  
715 Holgerson Rd  
Sequim, WA 98382  
360-457-8451

--

Juliana Merluccio  
Biological Technician  
Washington Maritime NWRC  
715 Holgerson Rd  
Sequim, WA 98382  
360-457-8451

--

Juliana Merluccio  
Biological Technician  
Washington Maritime NWRC  
715 Holgerson Rd  
Sequim, WA 98382  
360-457-8451

--

Juliana Merluccio  
Biological Technician  
Washington Maritime NWRC  
715 Holgerson Rd  
Sequim, WA 98382  
360-457-8451