

Online Data Sharing Platform

Purpose:

- Chla, phytoplankton biomass and zooplankton communities in North (>60°N)
 - Spatial variation
 - Interannual variation
 - Variations between warm and cold phases

Access:

- <https://researchworkspace.com/campaign/2585494/chukchi-bering-international-research>
- Spatial variation
 - Interannual variation
 - Variations between warm and cold phases

Chukchi-Bering International Research

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 - seabirds 1

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fish

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Exploring climate normals and anomalies using the Chukchi-Beaufort High-Resolution


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Exploring climate normals and anomalies using the Chukchi–Beaufort High-Resolution Atmospheric Reanalysis (CBHAR) model

ICES Journal of Marine Science



ICES Journal of Marine Science (2017), doi:10.1093/icesjms/fsx123

Seasonal, interannual, and spatial patterns of community composition over the eastern Bering Sea shelf in cold years. Part II: ichthyoplankton and juvenile fish

Elizabeth C. Siddon^{1*}, Janet T. Duffy-Anderson², Kathryn L. Mier², Morgan S. Busby², and Lisa B. Eisner¹

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Siddon, E. C., Duffy-Anderson, J. T., Mier, K. L., Busby, M. S., and Eisner, L. B. Seasonal, interannual, and spatial patterns of community composition over the eastern Bering Sea shelf in cold years. Part II: ichthyoplankton and juvenile fish. – ICES Journal of Marine Science, doi:10.1093/icesjms/fsx123.

Received 19 December 2016; revised 2 May 2017; accepted 8 June 2017.

Climate-mediated oceanographic changes have led to protracted periods of above- or below-average water temperatures over the eastern Bering Sea shelf since the early 2000s. Ecosystem components, from phytoplankton to marine birds, have shown dichotomous responses to these temperature stanzas. Understanding within-stanza responses is fundamental to modelling efforts that project ecosystem responses under future climate scenarios. This study describes fish communities associated with Walleye Pollock during the age-0 period and also examines within-stanza homogeneity of assemblages. Spatial patterns of assemblage structure are compared with pre-defined ecoregions and environ-


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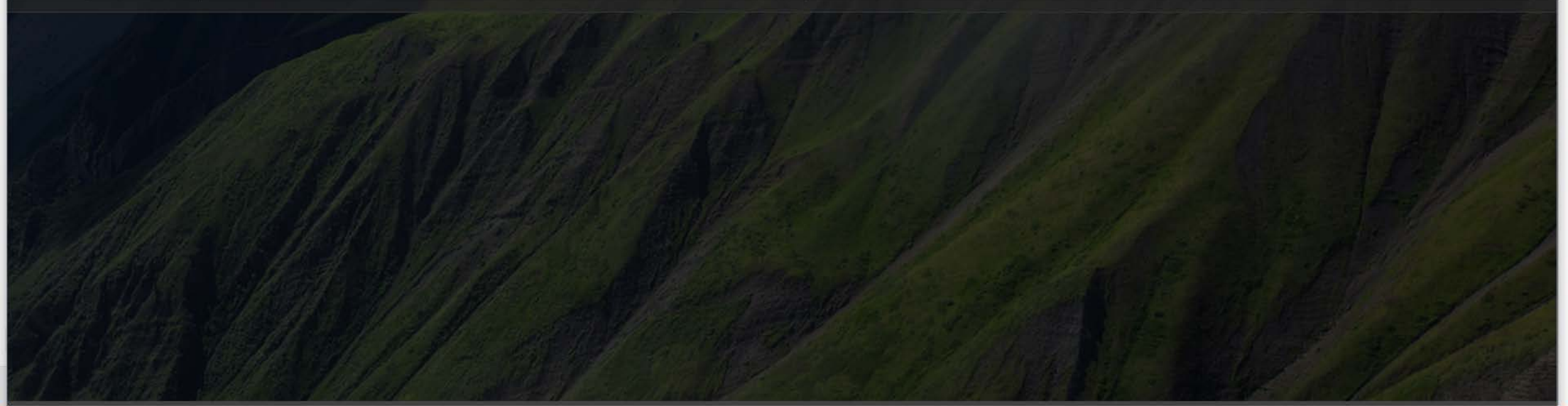
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Exploring climate normals and anomalies using the Chukchi-Beaufort High-Resolution Atmospheric Reanalysis (CBHAR) model

	Name	Size	Uploaded By	Updated
	1-plot-wind-vectors-from-grid.ipynb	2.1 MB	Stacey Buckelew	Aug 08
	4-plot-time-series-CBHAR.ipynb	202.1 kB	Will Koeppen	Aug 07
	3-climate-normals-from-monthly-averages.ipynb	182.6 kB	Will Koeppen	Aug 04
	2-monthly-averages-from-CBHAR-gluster.ipynb	137.1 kB	Will Koeppen	Aug 04



Plotting wind vectors from CBHAR

Purpose

This demonstration notebook plot wind speed and direction from a grid in a variety of ways including the following:

- wind speed as an unprojected colormap
- wind flow vector arrows, colored by speed
- wind barbs, colored by speed
- wind barbs over unprojected colormap of wind speed
- wind barbs over projected map of wind speed with a coastline

Inputs ¶

This notebook uses a time slice from the [Chukchi Beaufort High-resolution Atmospheric Reanalysis \(CBHAR\) 1979-2009](#) dataset provided to the public by the Bureau of Ocean and Energy Management through AOOS:

Outputs

For these examples, all output plots are published to the screen only.

Modification History

2017-07-07: Original script moved into Research Workspace (W. Koeppen, Axiom)

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Sort by Name

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fish

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Exploring climate normals and anomalies using the Chukchi-



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