

# Manuscript 1: Biological reference Points with spatial processes paper

## Authors

**Katelyn M. Bosley** (*katelyn.bosley@noaa.gov*), Fisheries Resource and Monitoring Division, Northwest Fisheries Science Center, NMFS-NOAA, 2032 S.E. OSU Drive, Newport, OR 97365, USA

**Daniel Goethel** (*daniel.goethel@noaa.gov*), Sustainable Fisheries Division, Southeast Fisheries Science Center, NMFS-NOAA, 75 Virginia Beach Drive, Miami, FL 33133, USA

**Aaron Berger** (*aaron.berger@noaa.gov*), Fisheries Resource and Monitoring Division, Northwest Fisheries Science Center, NMFS-NOAA, 2032 S.E. OSU Drive, Newport, OR 97365, USA

**Amy Schueller** (*amy.schueller@noaa.gov*), National Marine Fisheries Service, Southeast Fisheries Science Center, Beaufort Laboratory, 101 Pivers Island Road, Beaufort, NC 28516, USA

**Dana Hanselman** (*dana.hanselman@noaa.gov*), Auke Bay Laboratories, Alaska Fisheries Science Center, National Marine Fisheries Service, NOAA, 17109 Point Lena Loop Road, Juneau, AK 99801, USA

**Brian Langseth** (*brian.langseth@noaa.gov*), Pacific Islands Fisheries Science Center, NMFS-NOAA, 1845 Wasp Blvd., Bldg. 176, Honolulu HI, 96818, USA

**Jonathan Deroba** (*jonathan.deroba@noaa.gov*), North East Fisheries Science Center, NMFS-NOAA, 166 Water St., Woods Hole MA, 02543, USA

## Abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam cursus. Morbi ut mi. Nullam enim leo, egestas id, condimentum at, laoreet mattis, massa. Sed eleifend nonummy diam. Praesent mauris ante, elementum et, bibendum at, posuere sit amet, nibh. Duis tincidunt lectus quis dui viverra vestibulum. Suspendisse vulputate aliquam dui. Nulla elementum dui ut augue. Aliquam vehicula mi at mauris. Maecenas placerat, nisl at consequat rhoncus, sem nunc gravida justo, quis eleifend arcu velit quis lacus. Morbi magna magna, tincidunt a, mattis non, imperdiet vitae, tellus. Sed odio est, auctor ac, sollicitudin in, consequat vitae, orci. Fusce id felis. Vivamus sollicitudin metus eget eros.

## Introduction

Write something about the weather today and how hungry I am for lunch (Francis, 2011).

## Methods

What happens when I put in a list of references atis nec, euismod sit amet, egestas placerat, est (Francis, 2011; Hutchinson, 2008)?

## Results

Data was made up by be and can be found at (<http://www.ncbi.nlm.nih.gov/genbank/>).

Cras a ante vitae enim iaculis aliquam.

Gonna have a list:

- Do laundry
- Take dog for walk
- Use the YYYY-MM-DD format (i.e., follow the ISO 8601 data standard).

The model fit pretty good. You can see this in the figure below. Check it out!

## Hand waving

Some more references to test how this all works.

## Conclusion

Need to learn more about topic X. Please publish this study.

## Acknowledgments

Thanks to Donald Trump, Beowulf, and Beetlejuice for distracting us while we were trying to cobble together this manuscript. We were unable to convince any funding sources to support this study.

## References

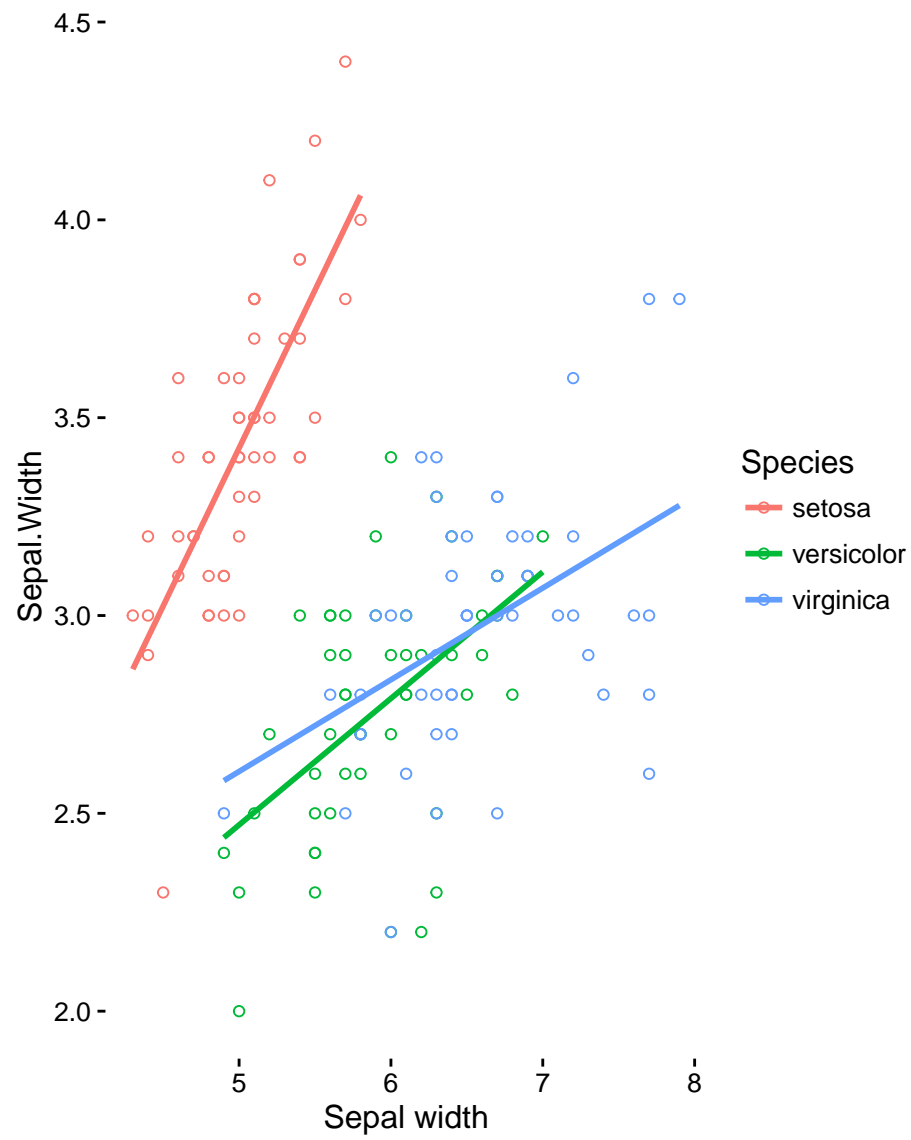
- Francis, R. C. (2011). “Data weighting in statistical fisheries stock assessment models”. In: *Canadian Journal of Fisheries and Aquatic Sciences* 68.November, pp. 1124-1138. ISSN: 0706-652X. DOI: 10.1139/f2011-165.
- Hutchinson, W. F. (2008). “The dangers of ignoring stock complexity in fishery management: the case of the North Sea cod.”. In: *Biology letters* 4.6, pp. 693-5. ISSN: 1744-9561. DOI: 10.1098/rsbl.2008.0443.

## Tables

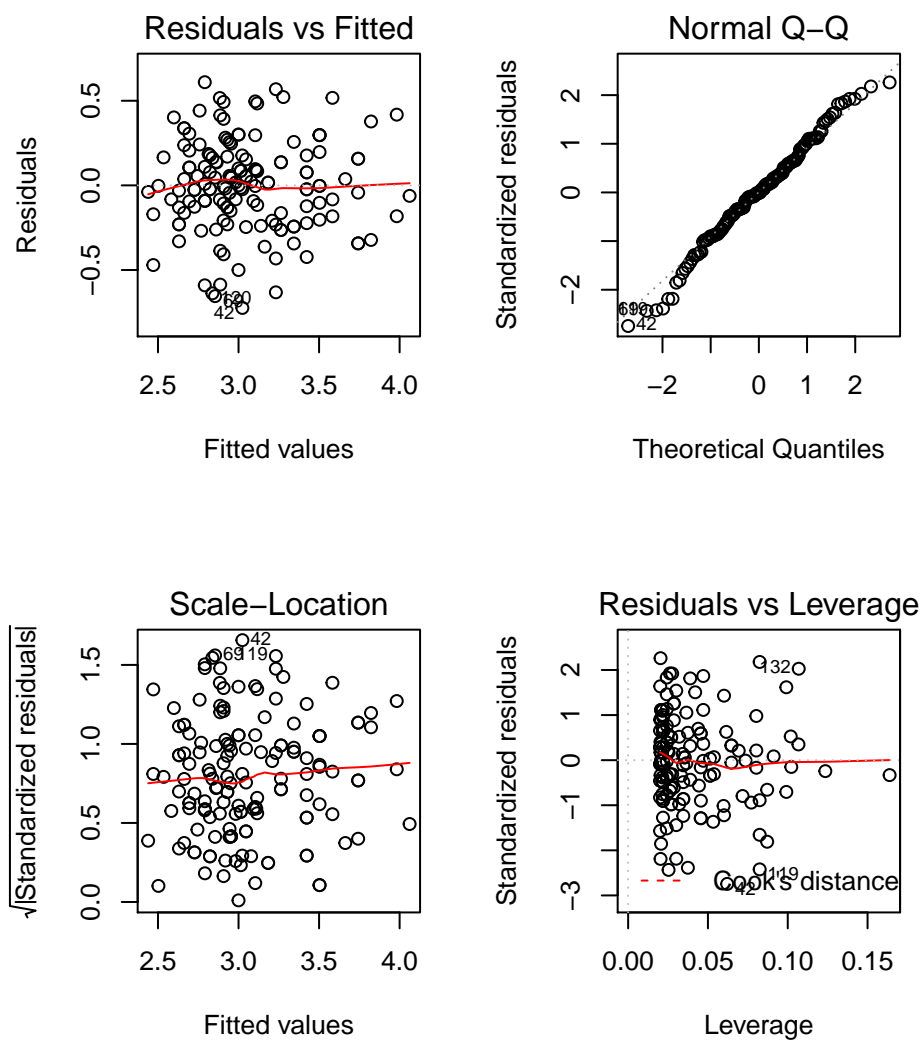
	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	-0.5694	0.5539	-1.03	0.3056
Sepal.Length	0.7985	0.1104	7.23	0.0000
Speciesversicolor	1.4416	0.7130	2.02	0.0451
Speciesvirginica	2.0157	0.6861	2.94	0.0038
Sepal.Length:Speciesversicolor	-0.4788	0.1337	-3.58	0.0005
Sepal.Length:Speciesvirginica	-0.5666	0.1262	-4.49	0.0000

**Table 1:** Regression model coefficients

## Figures



**Figure 1:** Something with lines



**Figure 2:** Some sort of output