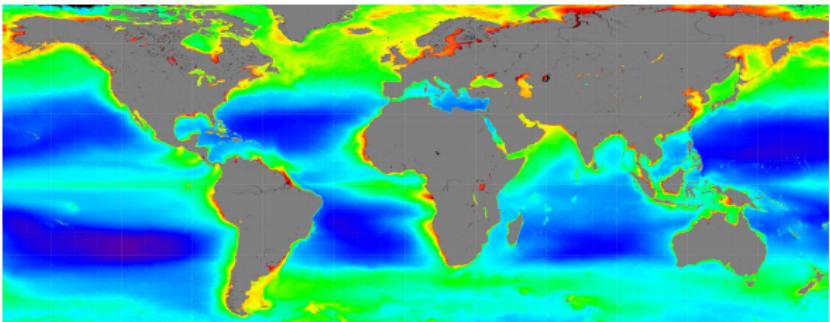


# Journal Club Presentation: Ocean Color

Kenneth Bellock, Leshi Chen, Danielle Durrance, Andrew Yen,  
Hack Perez

April 4, 2018



Source: [https://www.nasa.gov/press/2015/march/  
new-nasa-mission-to-study-ocean-color-airborne-particles-and-clouds](https://www.nasa.gov/press/2015/march/new-nasa-mission-to-study-ocean-color-airborne-particles-and-clouds)

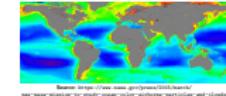
## Journal Club Presentation: Ocean Color

### └ Introduction

2018-03-25

Assumptions:

1. TODO: List assumptions.



# Table of contents

## 1 Introduction

## 2 Article Summaries

## 3 Summary and Conclusion

### └ Introduction

### └ Table of contents

2018-03-25

1. A road map is a great thing to have.
2. A joke or reference to current events in common culture would be great here if the audience appears receptive.

# Introduction

2018-03-25

└ Introduction

1. TODO: Write Introduction

# Biospheric Primary Production During an ENSO Transition

**Authors** Michael J. Behrenfeld, James T. Randerson, Charles R. McClain, Gene C. Feldman, Sietse O. Los, Compton J. Tucker, Paul G. Falkowski, Christopher B. Field, Robert Frouin, Wayne E. Esaias, Dorota D. Kolber, Nathan H. Pollack

**Objectives** TODO: Include objectives.

**Methods** TODO: Include methods.

**Findings** TODO: Include findings.

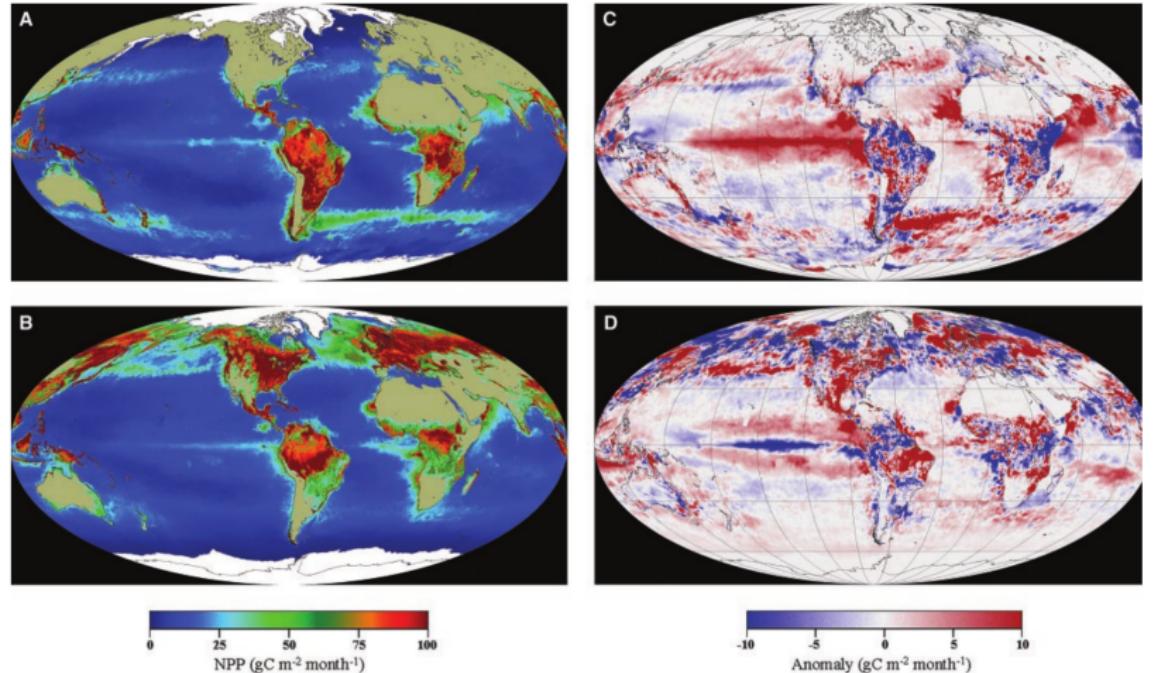
## Journal Club Presentation: Ocean Color

### Article Summaries

#### Biospheric Primary Production During an ENSO Transition

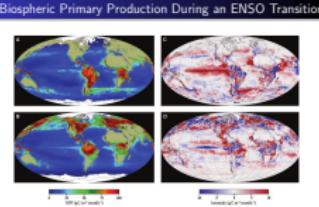
2018-03-25

# Biospheric Primary Production During an ENSO Transition



2018-03-25

└ Biospheric Primary Production During an ENSO Transition



# Performance of the MODIS semi-analytical ocean color algorithm for chlorophyll-a

Authors K.L. Carder, F.R. Chen, J.P. Cannizzaro, J.W. Campbell, B.G. Mitchell

Objectives TODO: Include objectives.

Methods TODO: Include methods.

Findings TODO: Include findings.

## Journal Club Presentation: Ocean Color

### Article Summaries

2018-03-25

#### Performance of the MODIS semi-analytical ocean color algorithm for chlorophyll-a

1. Include notes and talking points here.
2. There can be more than one note.

# Performance of the MODIS semi-analytical ocean color algorithm for chlorophyll-a

2018-03-25

└ Performance of the MODIS semi-analytical ocean color algorithm for chlorophyll-a

1. TODO: Include a pretty picture.

# Decadal changes in global ocean chlorophyll

Authors Watson W. Gregg, Margarita E. Conkright

Objectives The authors aim at finding decadal trends in global ocean chlorophyll between data obtained by CZCS (1979-1986) and those by SeaWiFS (1992-2000).

- Methods
- Chlorophyll data from CZCS and SeaWiFS are combined for reanalysis at 1 spatial resolution.
  - To increase compatibility and to reduce residual errors, both archives are blended with in situ data.

## Journal Club Presentation: Ocean Color

### Article Summaries

2018-03-25

#### Decadal changes in global ocean chlorophyll

- Include notes and talking points here.
- There can be more than one note.

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Methods

- Chlorophyll data from CZCS and SeaWiFS are combined for reanalysis at 1 spatial resolution.
- To increase compatibility and to reduce residual errors, both archives are blended with in situ data.

# Decadal changes in global ocean chlorophyll

## Findings

- There is large similarity in the global spatial distributions and seasonal variability between the two chlorophyll archives.
- On average, the global ocean chlorophyll has decreased from the CZCS archive to the SeaWiFS by 6%, and changes are mainly observed in summer and autumn.
- Reductions in North Pacific and North Atlantics in summer are mainly caused by reduced wind stresses and warmer sea surface temperature (SST).
- Regional meteorological events, such as PDP and ENSO have contributed to the changes in global ocean chlorophyll.

## Journal Club Presentation: Ocean Color

### Article Summaries

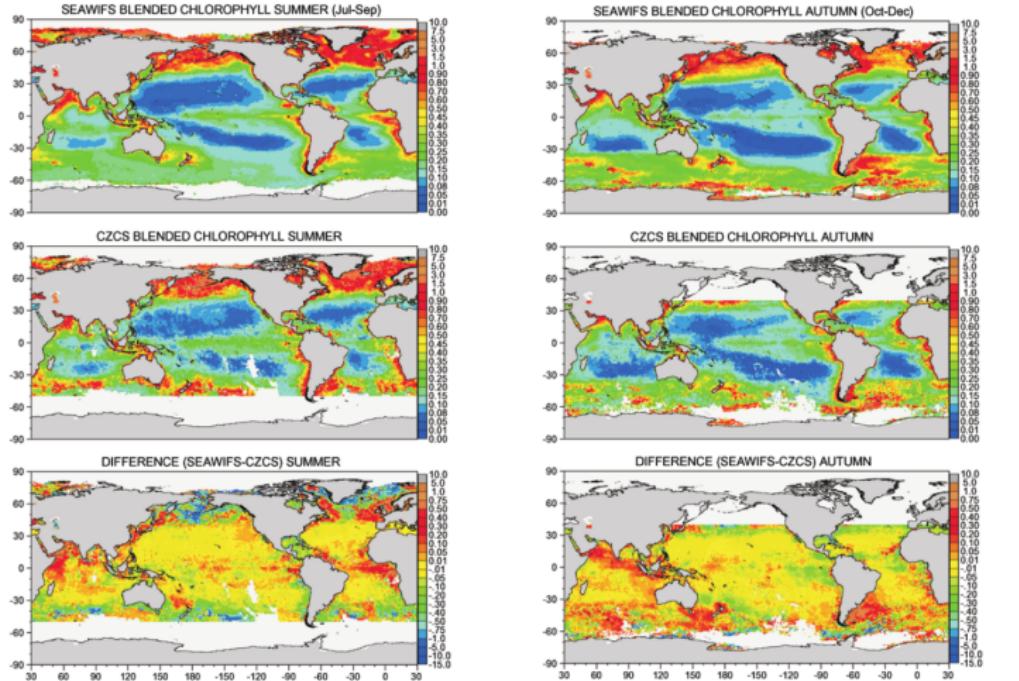
#### Decadal changes in global ocean chlorophyll

2018-03-25

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# Decadal changes in global ocean chlorophyll



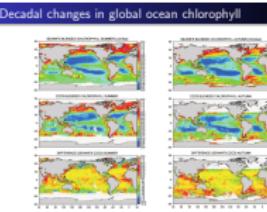
## Journal Club Presentation: Ocean Color

- Article Summaries

2018-03-25

- Decadal changes in global ocean chlorophyll

### 1. Pretty pictures



# Corrections to the Calibration of MODIS Aqua Ocean Color Bands Derived From SeaWiFS Data

Authors Gerhard Meister, Bryan A. Franz, Ewa J. Kwiatkowska, Charles R. McClain

Objectives TODO: Include objectives.

Methods TODO: Include methods.

Findings TODO: Include findings.

## Journal Club Presentation: Ocean Color Article Summaries

2018-03-25

### Corrections to the Calibration of MODIS Aqua Ocean Color Bands Derived From SeaWiFS Data

1. Include notes and talking points here.
2. There can be more than one note.

# Corrections to the Calibration of MODIS Aqua Ocean Color Bands Derived From SeaWiFS Data

## Journal Club Presentation: Ocean Color └ Article Summaries

2018-03-25

### └ Corrections to the Calibration of MODIS Aqua Ocean Color Bands Derived From SeaWiFS Data

1. TODO: Include a pretty picture.

## 1. TODO: Write Summary

2018-03-25

# Conclusion

└ Conclusion

2018-03-25

1. TODO: Write Conclusion