A Monte-Carlo based approach for estimating remote sensing reflectance uncertainty

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Objectives

- Quantify uncertainty due to atmospheric correction.
- Generate remote sensing reflectance uncertainty product.
- Characterize uncertainty with respect to potential drivers

Introduction

- Ocean color missions are subject to pre-specified uncertainty requirements.
- Requirements are borne out of guesswork
- Typical uncertainty estimation uses problematic comparison with in-situ data;
  - in-situ data sampling is potentially biased to easily accessible areas,
  - difficult to separate noise from in-situ and satellite measurements
  - differences in sampling scale also confounding.
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This statement requires citation [1].

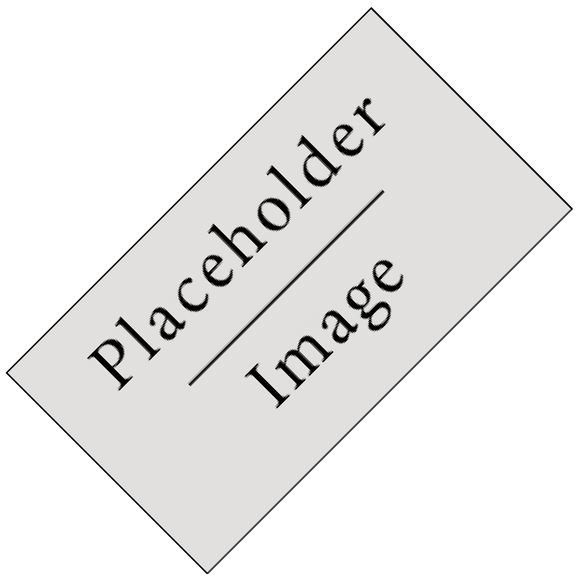

Figure 1: Figure caption

Materials

The following materials were required to complete the research:

- Curabitur pellentesque dignissim
- Eu facilisis est tempus quis
- Duis porta consequat lorem
- Eu facilisis est tempus quis

The materials were prepared according to the steps outlined below:

1. Curabitur pellentesque dignissim
2. Eu facilisis est tempus quis
3. Duis porta consequat lorem
4. Curabitur pellentesque dignissim

Important Result

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Mathematical Section

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$$E = mc^2 \tag{1}$$

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$$\cos^3\theta = \frac{1}{4}\cos\theta + \frac{3}{4}\cos 3\theta \tag{2}$$

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Methods

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Results

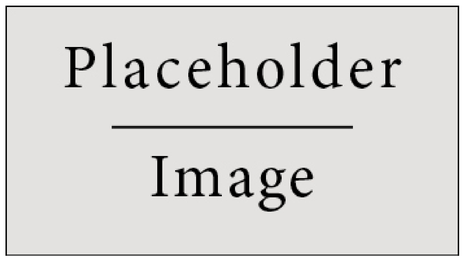

Figure 2: Figure caption

Nunc tempus venenatis facilisis. Curabitur suscipit consequat eros non porttitor. Sed a massa dolor, id ornare enim:

Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table 1: Table caption

Conclusion

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Additional Information

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- Curabitur pellentesque dignissim
- Eu facilisis est tempus quis
- Duis porta consequat lorem

References

[1] J. M. Smith and A. B. Jones.
Book Title.
Publisher, 7th edition, 2012.

[2] A. B. Jones and J. M. Smith.
Article Title.
Journal title, 13(52):123–456, March 2013.

Acknowledgements

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