Targeted updates to the Ocean Optics Protocols: Past, present and future

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Objective

In situ optical and biogeochemical in- and above-water measurements are critical for calibration and validation of satellite ocean color radiometry data products, and for refinement of ocean color algorithms. During the SeaWiFS era, NASA commissioned the development of a series of ocean optical measurement protocols, which have served as international reference standards ever since, and have promoted the collection and assembly of climate quality, ocean optical datasets by the global ocean color community. Over the past few years, NASA has sponsored several international workshops (sometimes in conjunction with IOCCG) with subject matter experts to update and develop new community consensus field measurement protocols for ocean color sensor validation. Newly-drafted protocols are available to the international user community on the IOCCG webpage for a period of time for public comment and access and associate editorial board peer-review, before they are accepted as international reference standards. Finalized protocols receive a version number and digital object identifier from IODE Ocean Best Practices. The updated protocols are intended to be "living" documents, periodically updated as methods and technologies advance.

1

Assemble Team of Subject Matter Experts

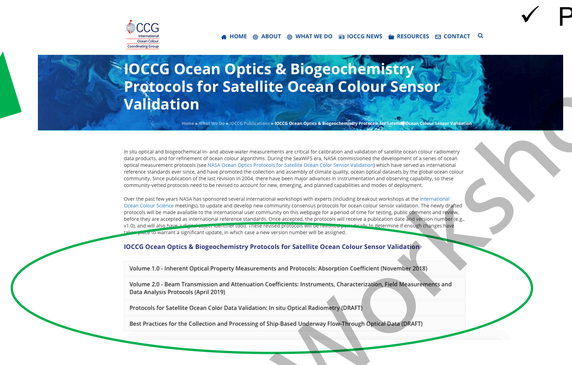
- ✓ Hold workshop(s) to discuss and resolve challenges
- ✓ Establish document outline
- ✓ Identify lead and contributing authors

2

Draft the Protocol

- ✓ Present progress at meetings
- ✓ Hold public workshops or breakout meetings
- ✓ 'Gently nudge' authors

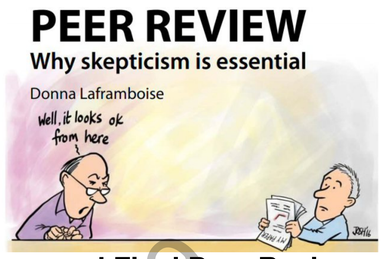
3



Post Draft Protocol for Public Comment

- ✓ **http://ioccg.org/what-we-do/ioccg-publications**
- ✓ 60+ day comment period
- ✓ Notify community through various listservs (IOCCG, TOS, OCB)
- ✓ Comments received by lead author(s)
- ✓ Assemble Associate Editorial Peer-review board members

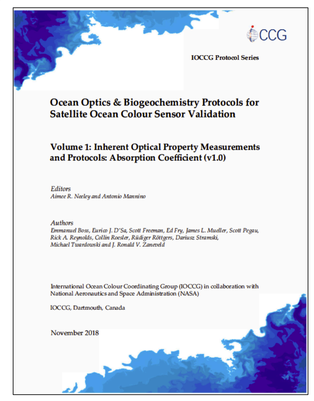
4



Revisions and Final Peer Review

- ✓ Revisions based on public comments
- ✓ Editorial peer-review board verifies public comments have been addressed
- ✓ Peer-review board can also submit comments and edits

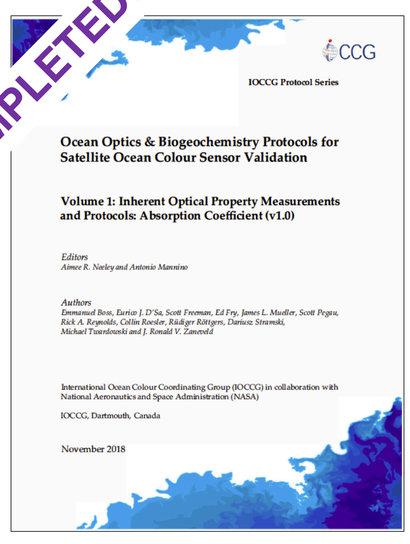
5



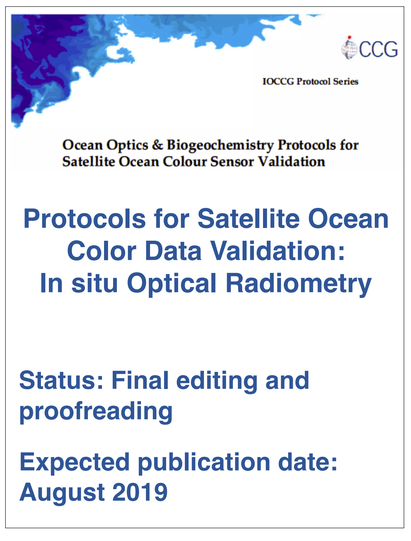
Online Publication

- ✓ Final copyediting and proofreading
- ✓ Obtain DOI: Ocean Best Practices
- ✓ Front and back covers added
- ✓ "Final" version published on IOCCG website
- ✓ Documents can be updated periodically

COMPLETED!!!

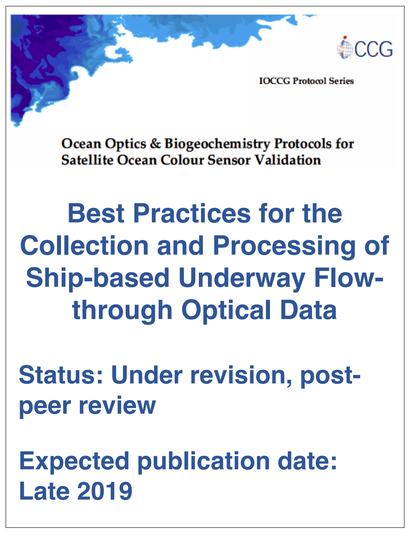


COMPLETED!!!



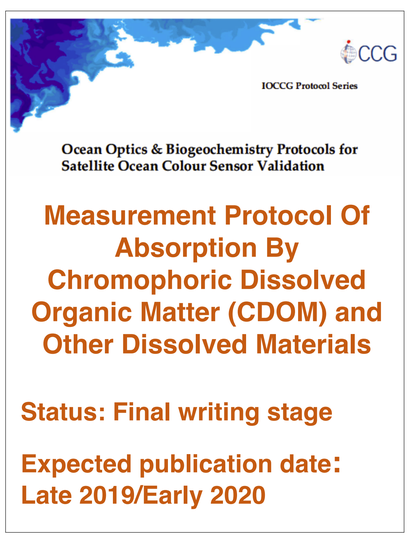
Status: Final editing and proofreading

Expected publication date: August 2019



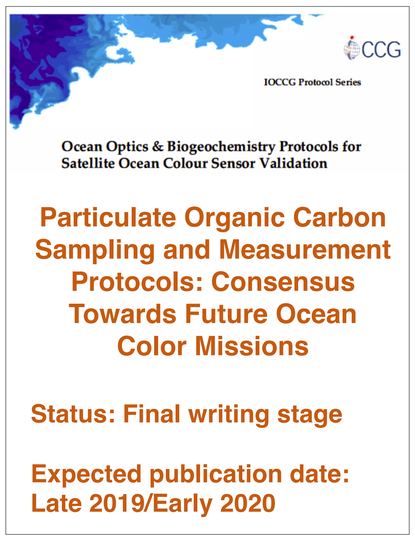
Status: Under revision, post-peer review

Expected publication date: Late 2019



Status: Final writing stage

Expected publication date: Late 2019/Early 2020



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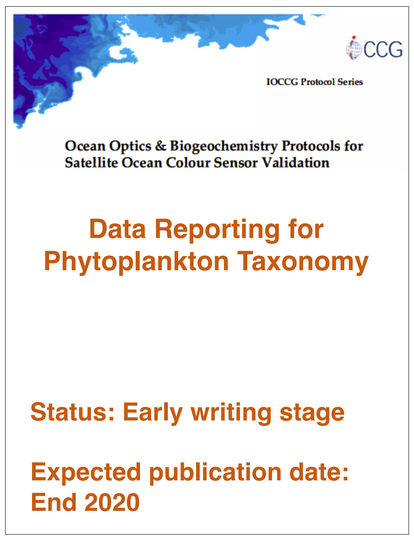
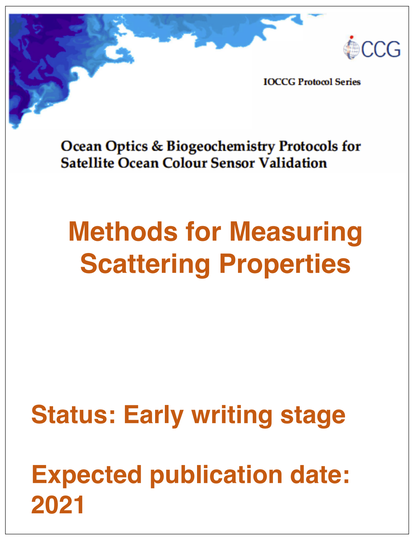


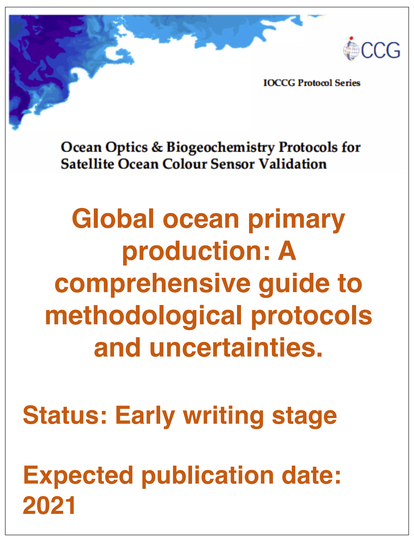
Status: Early writing stage

Expected publication date: End 2020



Status: Early writing stage

Expected publication date: 2021



Status: Early writing stage

Expected publication date: 2021