



Open Access Publishing

Public Peer-Review

Two-Stage Publication Process

Worldwide Archiving + Indexing



Ensuring availability and quality of research data through Open Access and public peer-review

Martin Rasmussen | Copernicus Publications

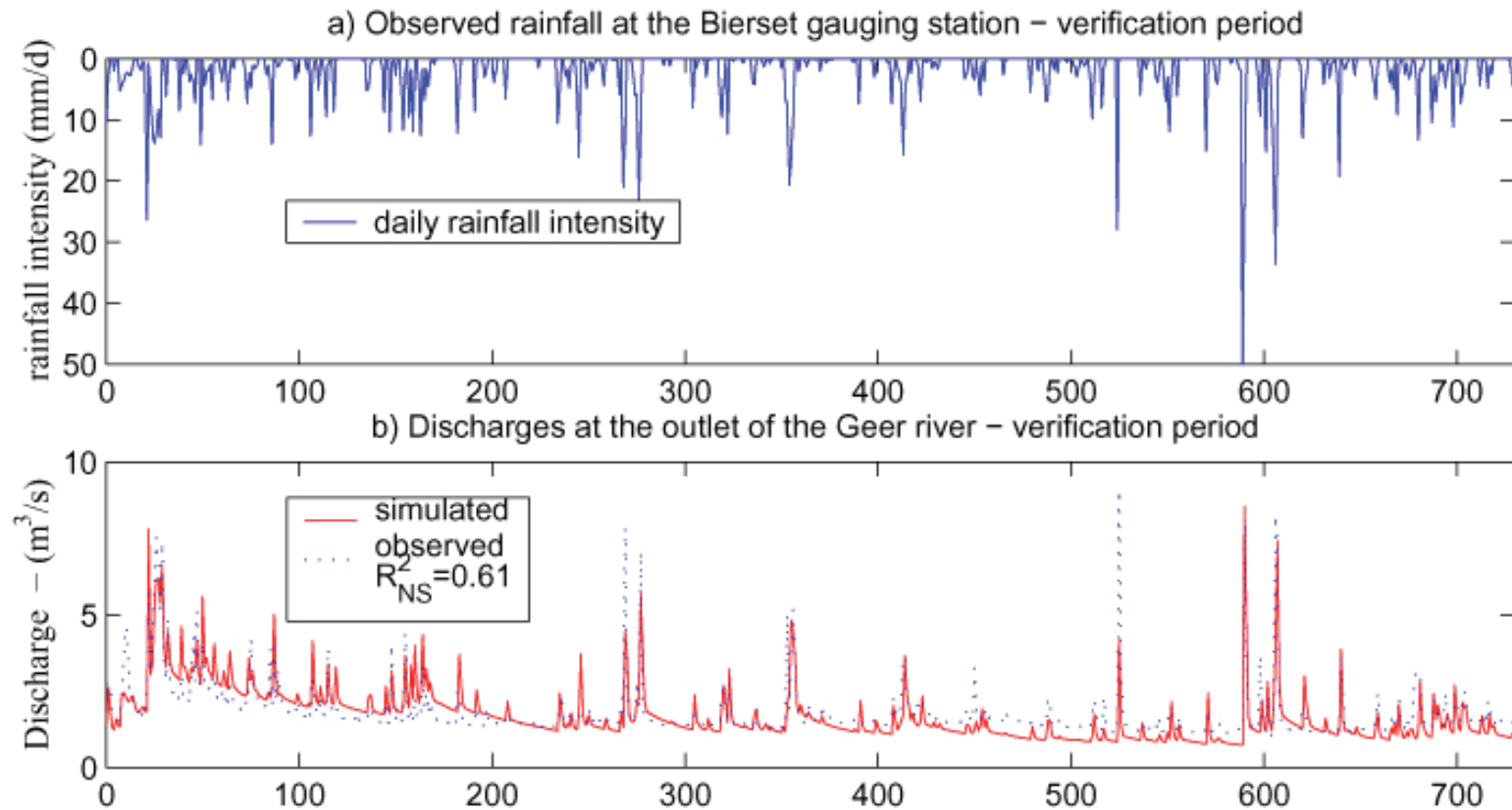
OAOD2010 | Cologne, Germany | 13 December 2010

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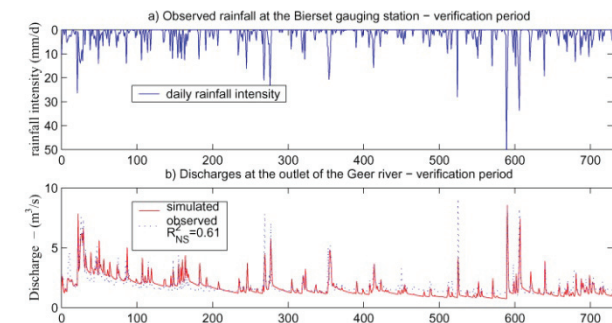


Motivation – The Data Problem for Readers



Motivation – The Data Problem for Readers

- Graph in the research paper – good modelling results!
- What is about the model scripts & routines?
- What is about the parameter files?
- What is about the underlying data sets?
 - Quality of original data sets & collection?
 - Quality of regionalization?
 - Are the results reproducible?



Open Access & Review

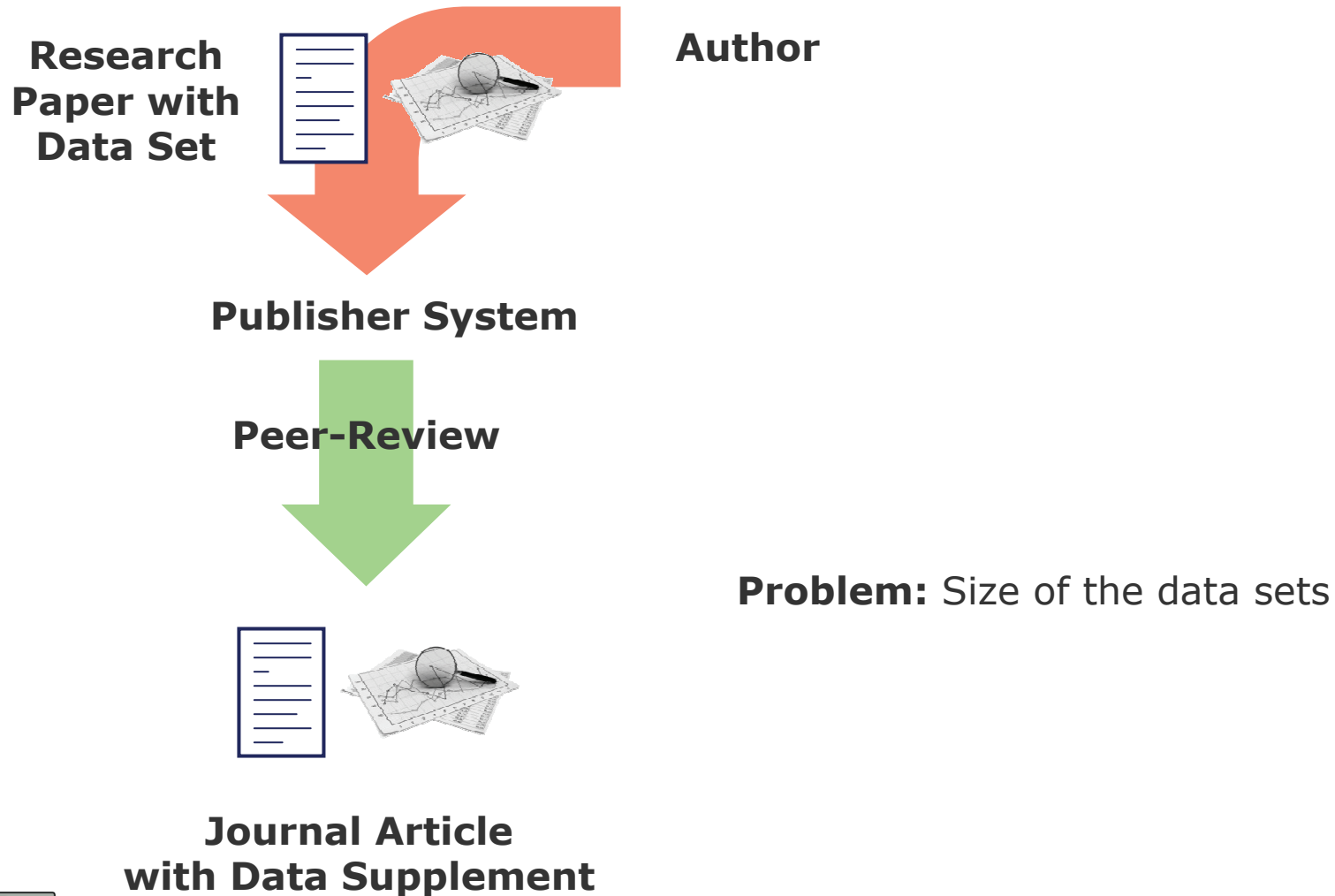
- Readers need access to data sets for reproduction & re-usage
- Reviewers need access to data sets during peer-review
- Research data is an integral part of the research paper
- Publisher's aim for quality & sustainability
 - Copyright & distribution license
 - Long-term availability of the publication & its data
 - Peer-review on data for quality assurance



How can a publisher help realizing access & quality assurance?



1 – Data as a Supplement (in-house)





Ocean Science

An Interactive Open Access Journal of the European Geosciences Union

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IF 0.937

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Definitions

Ocean Sci., 6, 185-190, 2010
www.ocean-sci.net/6/185/2010/
doi:10.5194/os-6-185-2010

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The gyre-scale circulation of the North Atlantic

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Abstract. The relationship between the gyre-scale circulation at the centre of the sub-tropical gyre, and sea level measured using records commencing in the middle of the 18th century, an earlier study of this relationship. Near-continuous values of air pressure fields for the eastern North Atlantic derived from information, have been used to demonstrate that sea level air pressure at the centre of the gyre (subject to reservation of the records). These findings confirm the earlier conclusions that at least part of the century timescale accelerations in European data. This finding has important implications for interpretation of European Atlantic coast, suggesting that redistribution of water change in ocean volume.

Final Revised Paper (PDF, 539 KB) Supplement (4 KB)

Citation: Woodworth, P. L., Pouvreau, N., and Wöppelmann, G.: Sea level at Brest, Ocean Sci., 6, 185-190, doi:10.5194/os-6-185-2010

XML

Version: 19 Feb, 2007

Read data from file

output

load s

[s, i]

sorted

x=sort

Set

qsin =

cqs=1;

qrin =

cqr=1;

pqr=0;

Set

qs=qs1

hbi =

hb=x(h

if hb=

hli =

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hl=x(h

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if lam

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disp (

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ret

endfur

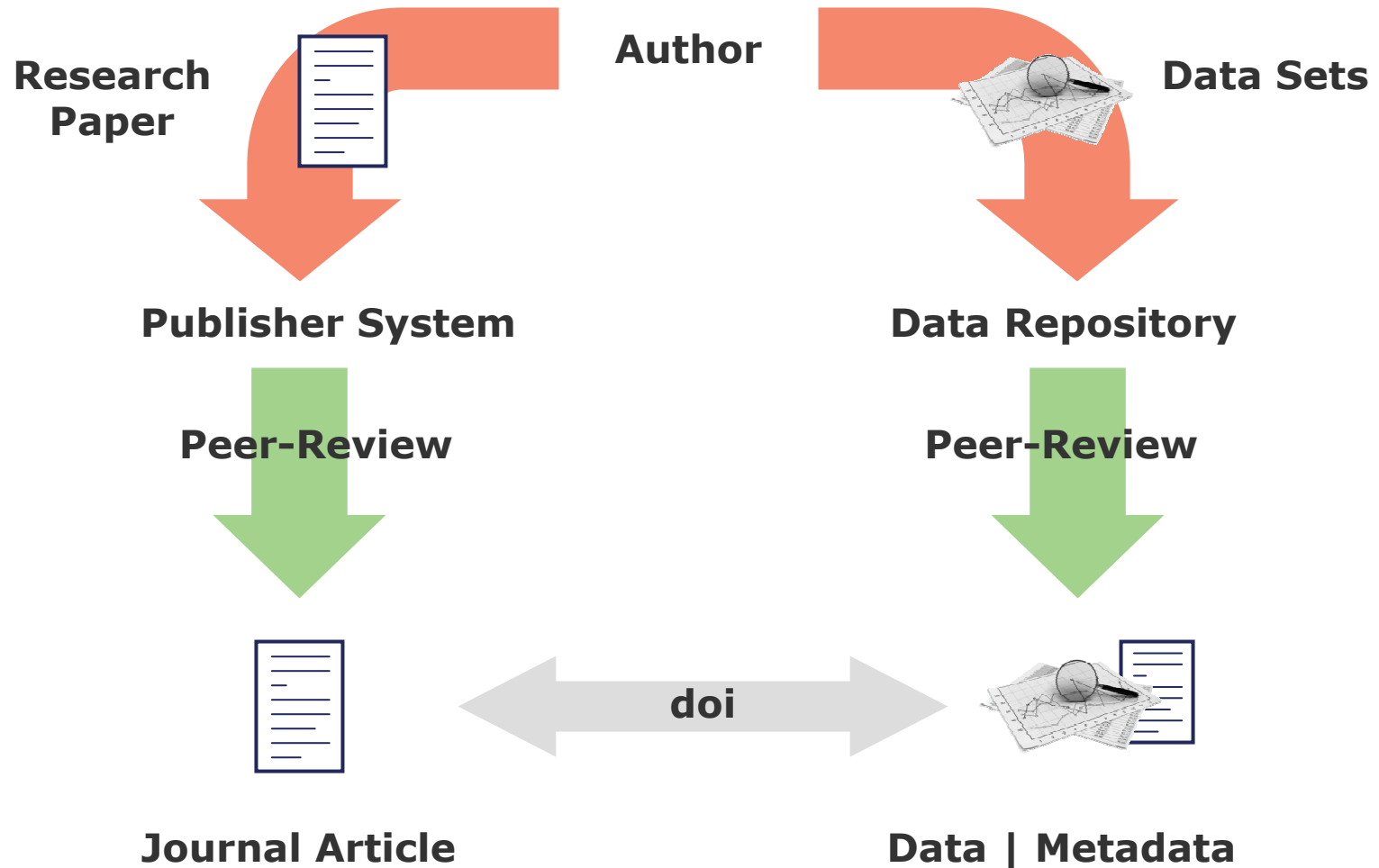
2009_ts01.txt - Notepad

File Edit Format View Help

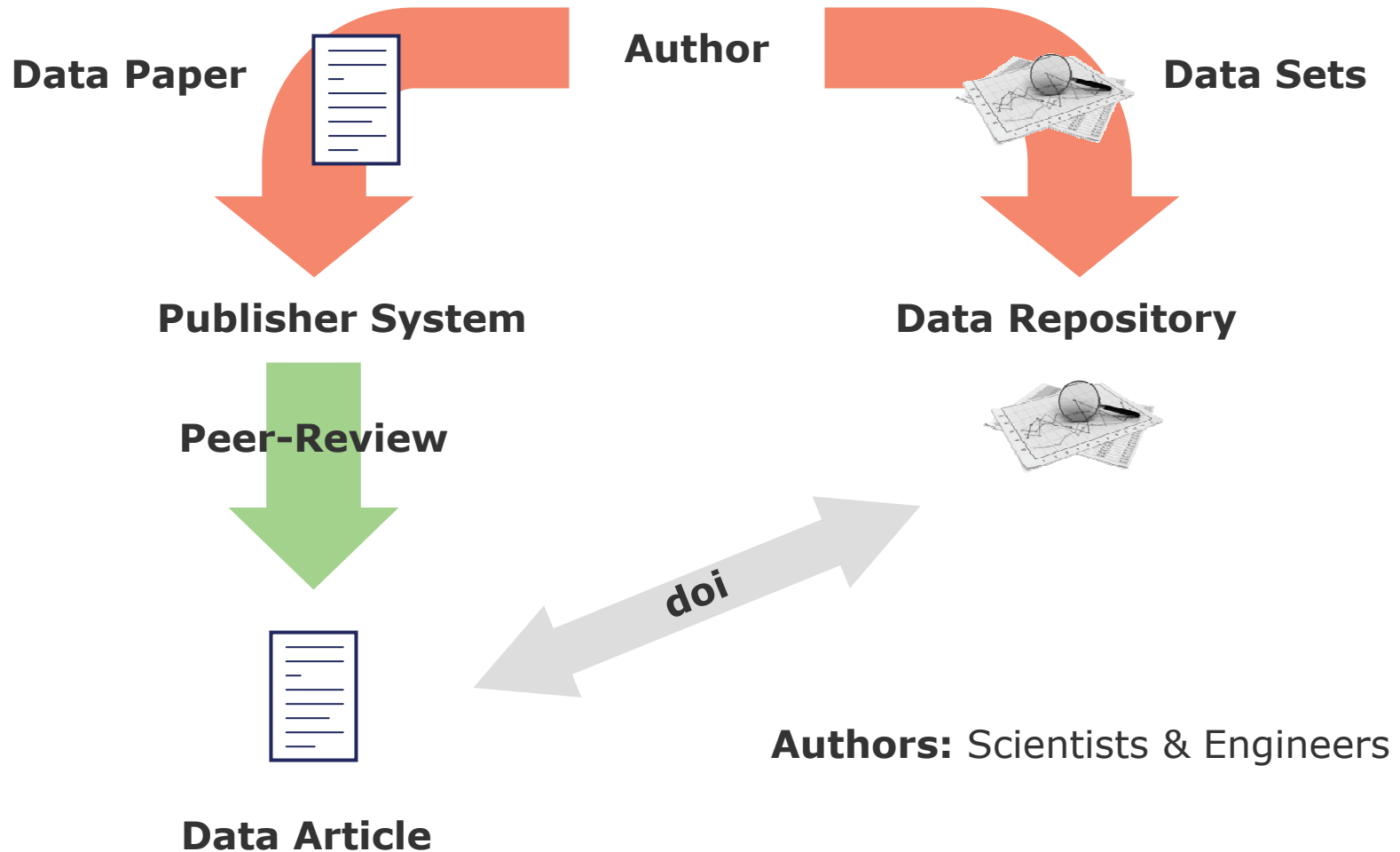
Column "Pred.", Annual mean of High waters predicted from the tidal constituents, in cm.
Column "MHwr", Annual mean of residual High Water, in cm (Obs. minus Pred.).
Column "Days", Number of observed days in the year.

Year	Obs.	Pred.	MHwr	Days
1711	612.71	631.22	-18.51	198
1712	613.24	630.13	-16.89	340
1714	608.91	635.49	-26.58	315
1715	613.78	637.77	-23.99	363
1716	603.66	635.47	-31.81	272
1758	615.29	634.80	-19.51	361
1759	607.72	633.08	-25.36	363
1760	610.04	632.10	-22.06	352
1761	605.33	628.34	-23.01	359
1762	605.37	627.21	-21.84	333
1763	608.39	624.35	-15.96	322
1764	602.71	625.55	-22.84	366
1765	603.28	625.26	-21.98	365
1766	603.63	626.46	-22.83	364
1767	608.42	629.34	-20.92	365
1768	611.96	632.03	-20.07	365
1769	609.39	632.84	-23.45	365
1770	606.28	635.36	-29.08	365
1771	613.11	638.39	-25.28	365
1772	622.25	639.60	-17.35	354
1773	614.16	638.90	-24.74	365
1774	614.94	638.49	-23.55	364
1775	613.78	639.39	-25.61	365
1776	612.66	637.20	-24.54	366
1777	611.47	634.12	-22.65	360
1778	608.89	633.47	-24.58	334
1779	603.43	630.91	-27.48	364
1780	601.85	627.64	-25.79	366
1781	600.09	624.69	-24.60	362
1782	603.75	624.84	-21.09	365

2 – Data as a Supplement (external)



3 – Data as a Publication



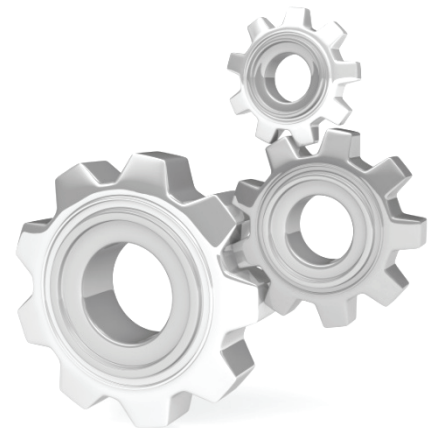
The Data Publishing Journal ESSD



- Articles on original data sets
- Furthering re-use of high quality data
- Data section: planning, instrumentation, execution of data collection
- No interpretation
- Methods section: filter, normalize, convert raw data to primary
- No comparison to other methods
- **Started in 2009**, 27 articles
- Chief Editors: Dave Carlson (IPY), Hans Pfeiffenberger (AWI)
- Managing Editor: Sünje Dallmeier-Tiessen (CERN)

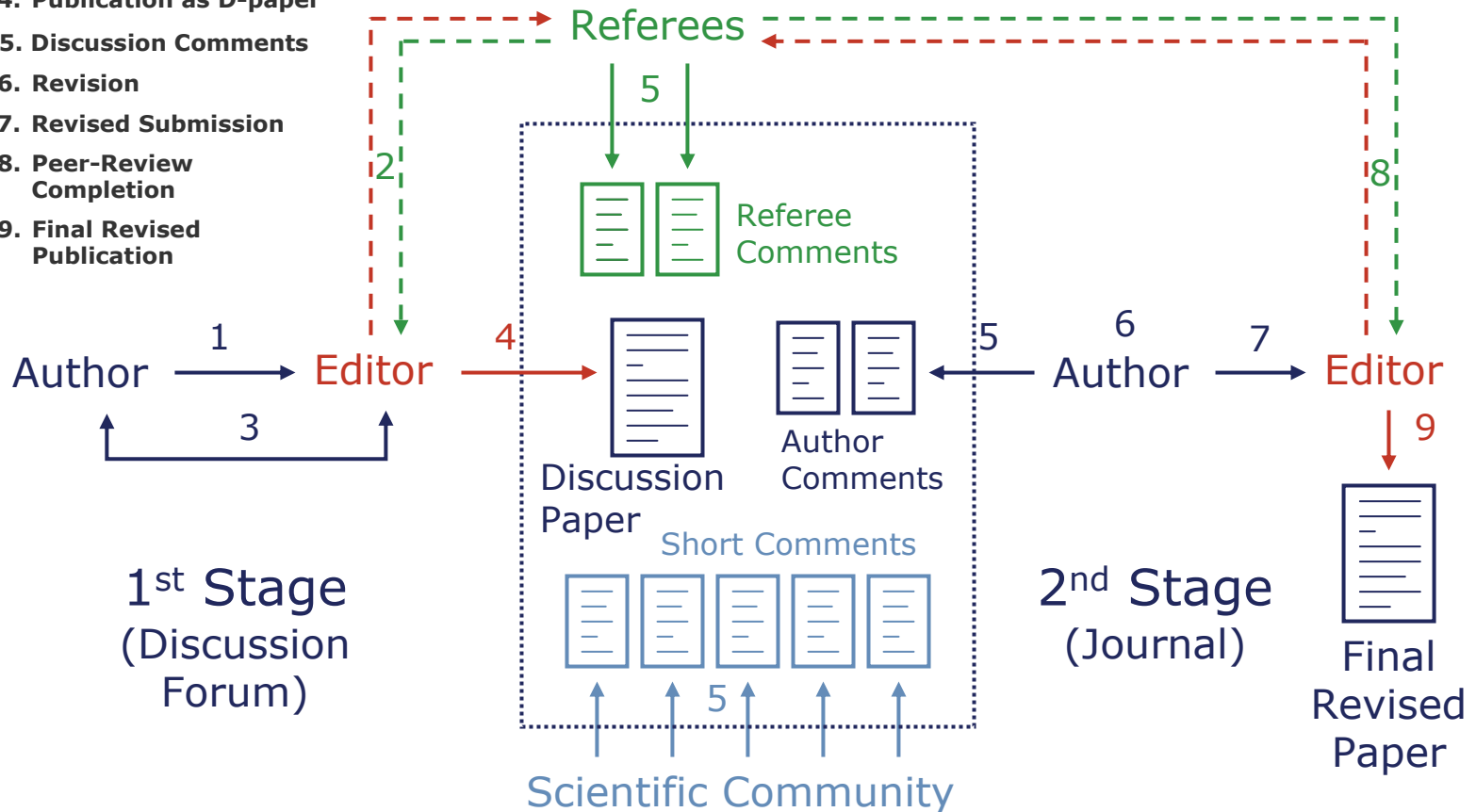
ESSD's Manuscript Structure

- Abstract
- Data coverage & parameters measured
- Instrumentation & methods
- Data provenance & structure
- Data access
- References



ESSD's Public Peer-Review

1. Submission
2. Access Review
3. Technical Corrections
4. Publication as D-paper
5. Discussion Comments
6. Revision
7. Revised Submission
8. Peer-Review Completion
9. Final Revised Publication



ESSD's Public Peer-Review

Earth Syst. Sci. Data Discuss., 3, 259–279, 2010
www.earth-syst-sci-data-discuss.net/3/259/2010/
doi:10.5194/essdd-3-259-2010
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Open Access
Earth System
Science
Data
Discussions

This discussion paper is/has been under review for the journal Earth System Science Data (ESSD). Please refer to the corresponding final paper in ESSD if available.

Polar baseline surface radiation measurements during the International Polar Year 2007–2009

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Received: 27 August 2010 – Accepted: 14 September 2010 – Published: 22 September 2010

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ESSDD

3, 259–279, 2010

BSRN-IPY radiation measurements

C. Lanconelli et al.

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Data Provenance & Structure

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Interactive Discussion

CC BY

Discussion Paper

Discussion Paper

Discussion Paper

Discussion Paper

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Editor

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Final Revised Paper

ESSD's Review Criteria

- Originality
- Significance
 - Uniqueness – no replication on routine basis
 - Usefulness – usage for interpretation, comparison, verification
 - Completeness – re-usage in one context
- Data Quality – best practises, inconsistencies, implausible assertions
- Presentation Quality
- Repository Criteria
 - Persistent identifier
 - Open Access & liberal copyright
 - Long-term availability



Conclusions

- Importance of accessibility **and** quality assurance
- Publisher's data publication models
- Data as a supplement (in-house)
 - Advantage internal peer-review
 - Advantage data publication alongside the research paper
 - Disadvantage size of data sets
- Data as a supplement (external)
 - Advantage external data repository capacities
 - Disadvantage external peer-review
- Data as a publication
 - Advantage external data repository capacities
 - Advantage internal peer-review dedicated to the data sets
- Data publication prior to the publication of the research paper

Thank you very much
for your attention!

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