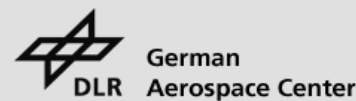
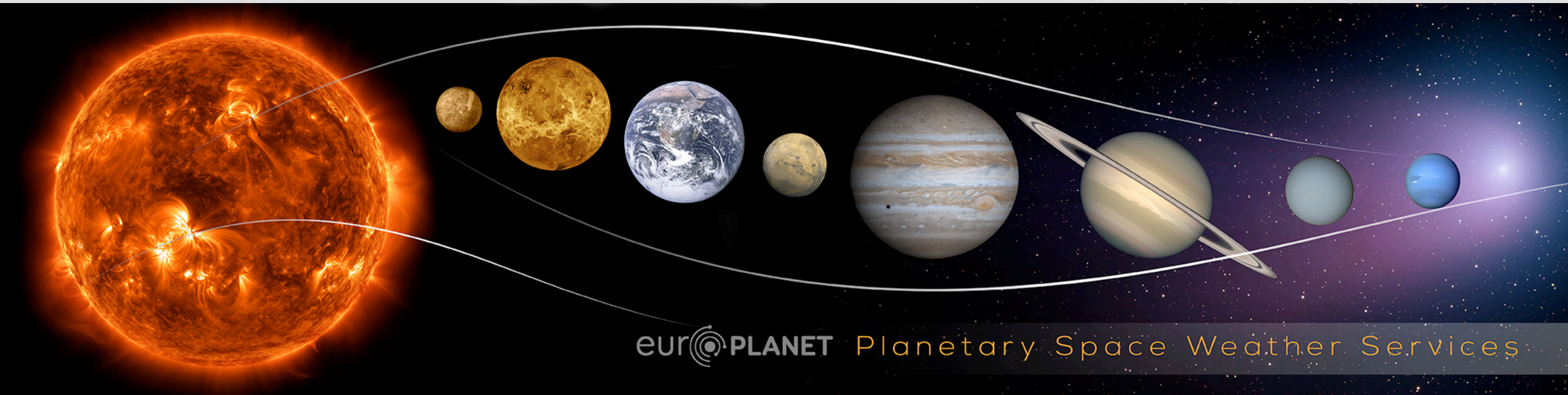


WP5/10 – Planetary Space Weather Services



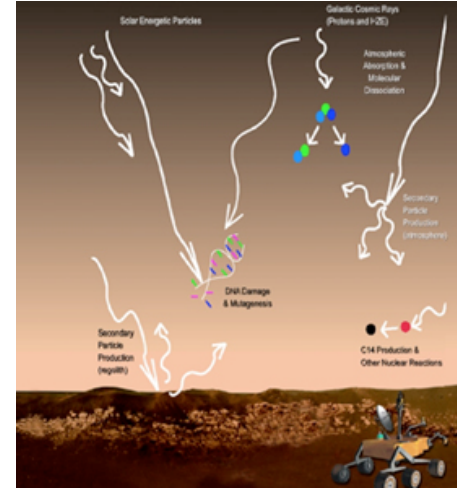
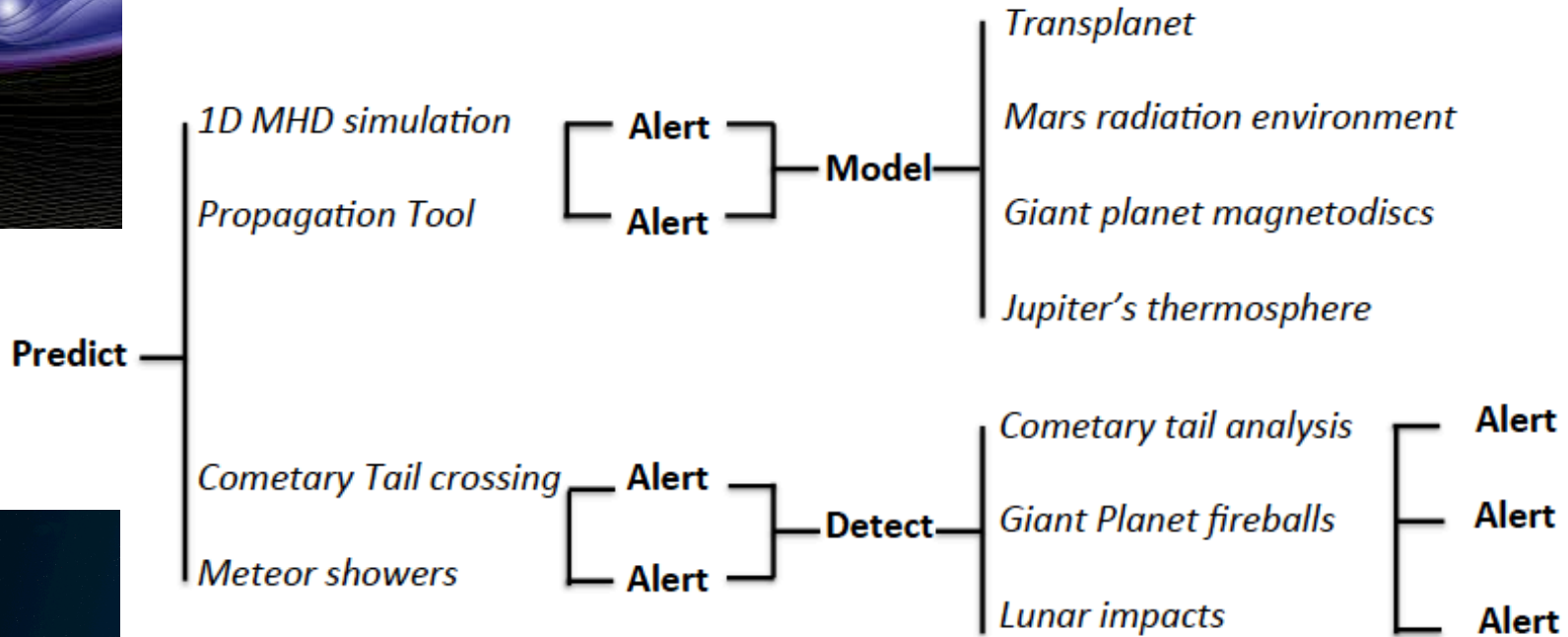
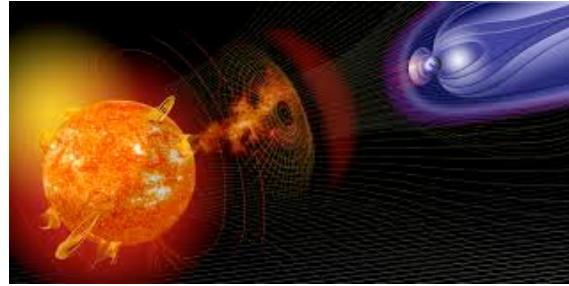
PSWS Objectives

Review, test, improve and adapt methods and tools available within the partner institutes in order to **make prototype planetary event and space weather services operational** in Europe at the end of the programme

PSWS: 4 Domains, 12 Services

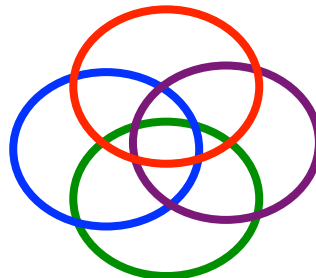
A. Prediction	A1. 1D MHD Solar Wind Prediction Tool (CNRS)	Open
	A2. Propagation Tool (GFI Informatique)	Open
	A3. Meteor showers (OBSPARIS)	11/2017
	A4. Cometary tail crossings (UCL)	
B. Detection	B1. Lunar impacts (ABER)	11/2017
	B2. Giant planet fireballs (UPV/EHU)	Open
	B3. Cometary tails (UCL)	
C. Modelling	C1. Transplanet – Earth, Mars, Jupiter (CNRS)	Open
	C2. Mars radiation environment (ABER)	
	C3. Giant planet magnetodiscs (UCL)	11/2017
	C4. Jupiter's thermosphere (UCL)	11/2017
D. Alert	D. Alerts (OBSPARIS/IRAP)	11/2017

PSWS: 4 Domains, 12 Services



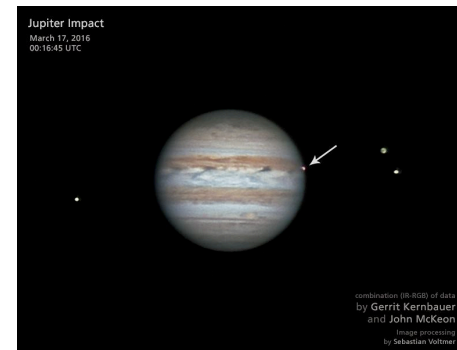
Scientists

Amateurs



Space Agencies

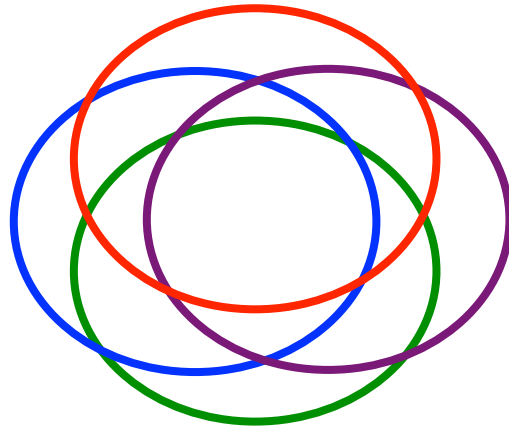
Space Industries



PSWS Users

Scientists

Amateurs



Space Agencies

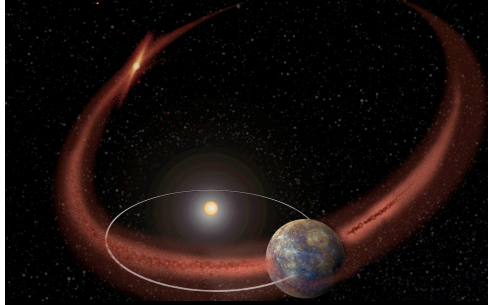
Space Industries



Siding spring comet at Mars / Lunar flashes

MAVEN, MEX, MSL observations in 2014

All PSWS users impacted (e.g MAVEN Instruments turned-off for safety)



Comet Encke causes seasonal showers of meteor at Mercury

MESSENGER observations in 2013

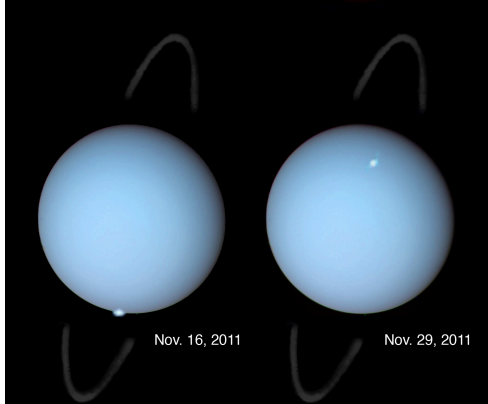
All PSWS users impacted (e.g BepiColombo operation scenario)



Shoemaker-Levy 9 at Jupiter / Giant planet fireballs at Saturn

Dedicated campaign in 1994 / Detection by amateur astronomer A. Wesley

All PSWS users impacted (e.g. Jupiter Watch network)



HST observation of shock-driven auroral emissions at Uranus

HST observations by Lamy et al. in 2012

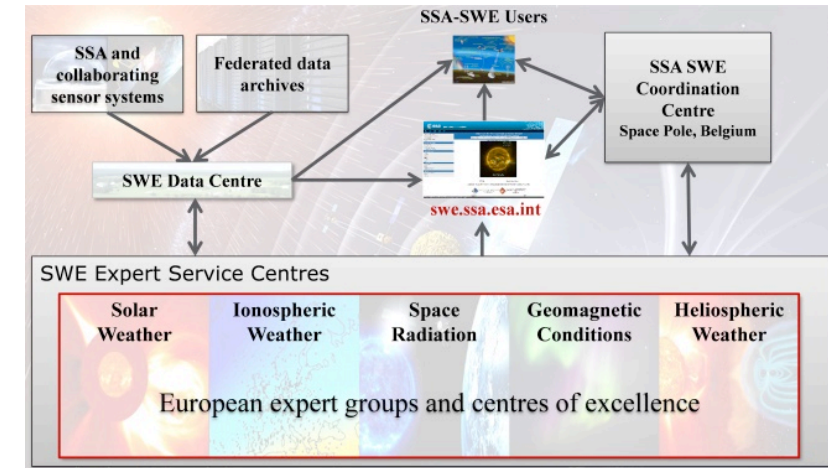
All PSWS users impacted (e.g. Ice Giant mission design)

Opportunities from space missions

- MAVEN, orbiting Mars since 2014
- JUNO, just arrived at Jupiter, 07/2016
- Exomars, arriving at Mars, 09/2016
- Rosetta, end of mission 09/2016
- BepiColombo/JUICE in preparation

Liaisons/Collaborations with:

- Space Situation Awareness (SSA, ESA)
- Other EU-funded programmes (FP7, H2020)
 - IMPEX
 - HELCATS
 - 2 COMPET-5-2017, 1 COMPET-4-2017 projects
- Community Coordinated Modeling Center (CCMC, USA)



The logo for the Journal of Space Weather and Space Climate (SWSC) is located in the top left corner. It features the acronym 'SWSC' in large, bold, white letters on a green background. To the right of the acronym, the full name of the journal is written in smaller white text: 'Journal of Space Weather and Space Climate'. The background of the top banner is a composite image showing green aurora-like patterns on the left and a fiery, orange-red celestial body on the right.

SWSC

Journal of
Space Weather and
Space Climate

Topical Issue of Journal of Space Weather and Climate

www.swsc-journal.org

SWSC – the Journal of the space weather Community





The journal is a link between all communities interested in space weather and space climate, including planetary space weather

- Editorial board of 21 associate editors, 2 of which specialized in planetary space weather.
- Editorial secretary: Jan Janssens
- Editorial advisor: Jürgen Watermann
- Editors in Chief: Anna Belehaki / Jean Lilensten
- Publisher: EDPS
- An enormous support from the Royal Observatory of Belgium

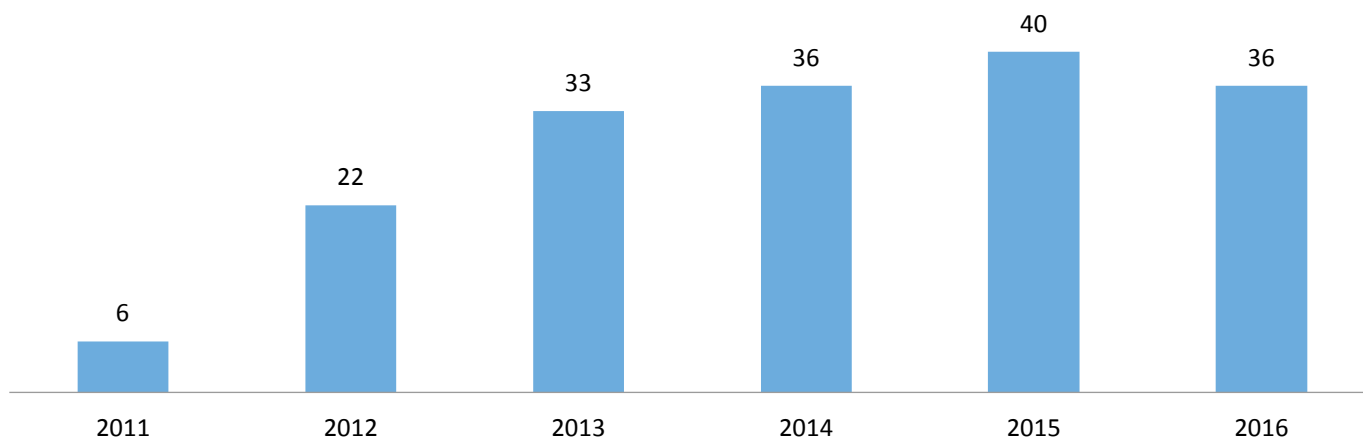


Open Access Journal

High visibility and widely open:

- Free access, indexed in ISI-Web of Sciences, ADS, DOAJ, Scopus, etc.
- Copyright belongs to the authors, with a Creative Commons licences CC-BY

Number of papers published:



2016: until October 14, 41
on December 31st

87 submissions to date in 2017

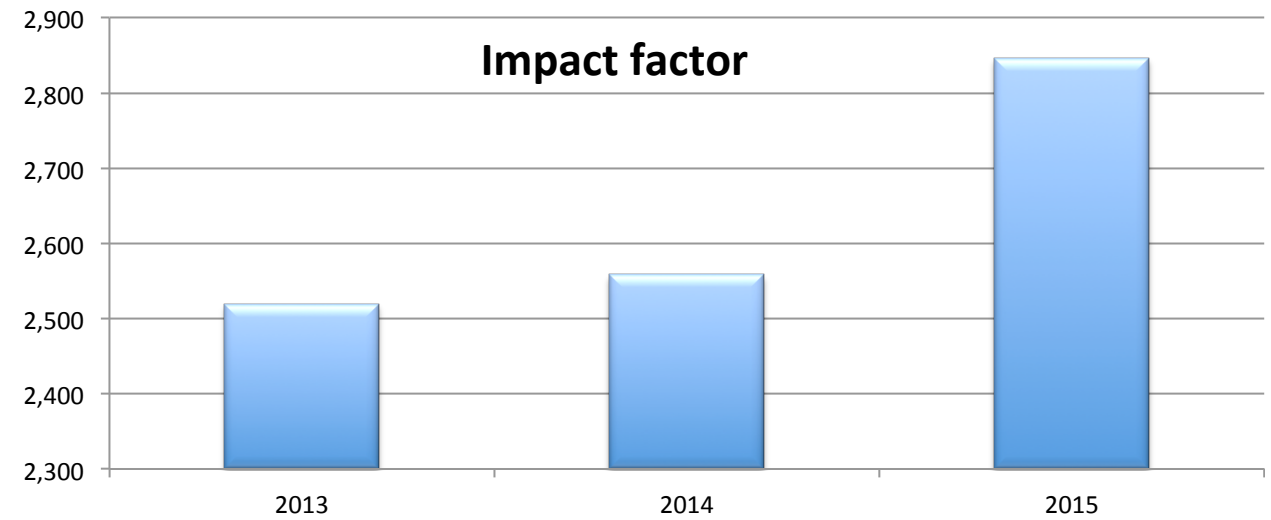


Downloads full text:

January 2015: 3606

September 2016: 12 026

In constant increase. Downloaded from
the 5 continents.



June 2014: 2.519

June 2015: 2.558

June 2016: 2.846

Indexed in the categories:

ASTRONOMY & ASTROPHYSICS (rank in 2015: 23/62)

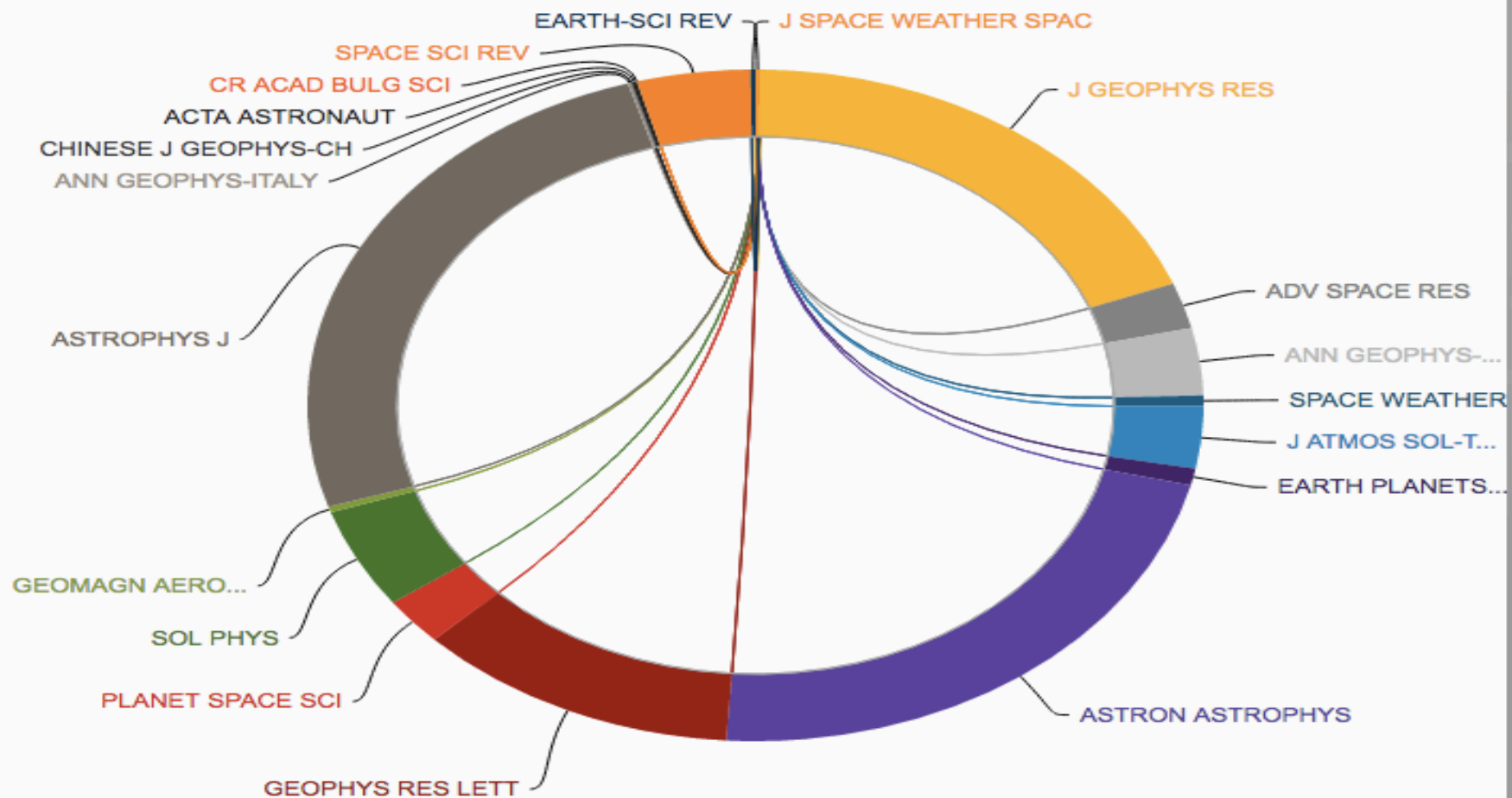
GEOCHEMISTRY & GEOPHYSICS (rank in 2015: 21/81)

METEOROLOGY & ATMOSPHERIC SCIENCES (rank in 2015:
25/84)

Journal Relationships



Data: Cited Data



Cited in:

Publication charges: 800 € including language editing

New Journal of Physics	1560€
JGR	1000 € / 2500 € in open acces
Plos One	1495\$
Phys Rev X (APS)	2500\$
Scientific Reports	1165 €
AGU Open Access Publications	3500\$
Icarus (Elsevier)	2750\$ (Hybrid journal)

The top right portion of the slide features a vibrant astronomical image, likely showing a nebula or a close-up of a celestial body with glowing orange and red hues against a dark space background.

Topical Issue of Journal of Space Weather and Climate

Topical Editor in chief : Nicolas André

Topical editorial board: Manuel Grande + (in construction): 2
to 3 additionnal members

Deadline for first submission: November 1st, 2017

Deadline for submission: March 31st, 2018

Please fill the questionnaire circulating in the room to
mention your will to participate.