



RMetS Quarterly Journal: Celebrating 150 Years
Co-Chief Editors: John Methven & Andrew Ross



Celebrating 150 Years of the
Quarterly Journal of the
Royal Meteorological
Society

Take a look at the timeline celebrating the 150 year history
of the Quarterly Journal

Journal and Society History

R Met S History Group

Editors' Selection

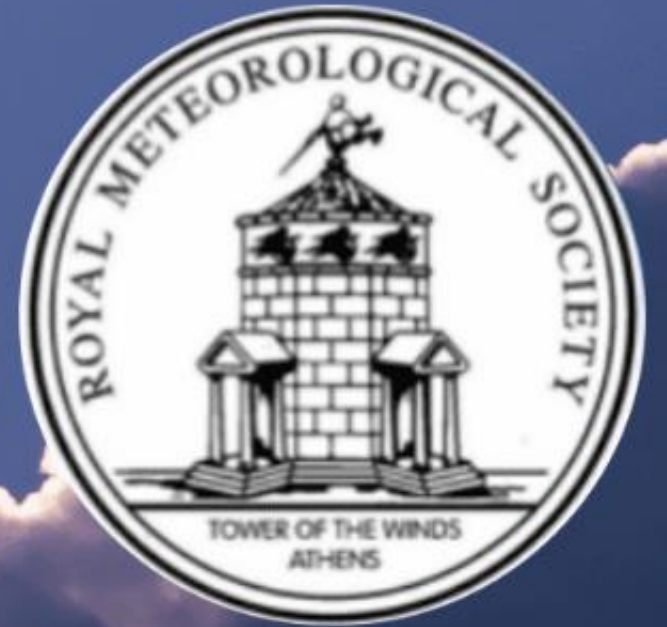
- 1873: Quarterly Journal of the Meteorological Society initiated
- 1873: International Meteorological Organization founded (later the WMO)
- 1883: Use of "Royal" in society name bestowed by Queen Victoria

**Quarterly Journal of the
Royal Meteorological Society**



150th Anniversary Virtual Collection

**Classic Papers Celebrating 150
Years of the Quarterly Journal of
the Royal Meteorological Society**



WILEY

Covering the Breadth of Atmospheric Science

Thanks to former Chief Editors and the R Met S History Group who proposed key papers - **highlighting a few here**

➤ Atmospheric Composition

- Harrison & Dobson (1925) – spectral measurements of ozone
- Crutzen (1970) – catalytic destruction of ozone via nitrogen oxides

➤ Climate Change

- Callendar (1938) - anthropogenic emissions of CO₂ forcing climate change

➤ Atmospheric Dynamics

- Rossby (1940) – theory of planetary waves and meandering jet stream
- Brewer (1949) – deduction of global stratospheric circulation from measurements of water vapour and helium over Southern England!

➤ Global Circulation Models

- Phillips (1956) – one of the first numerical model simulations of global circulation
 - Two layers with 16x17 grid points

➤ Radiative Transfer

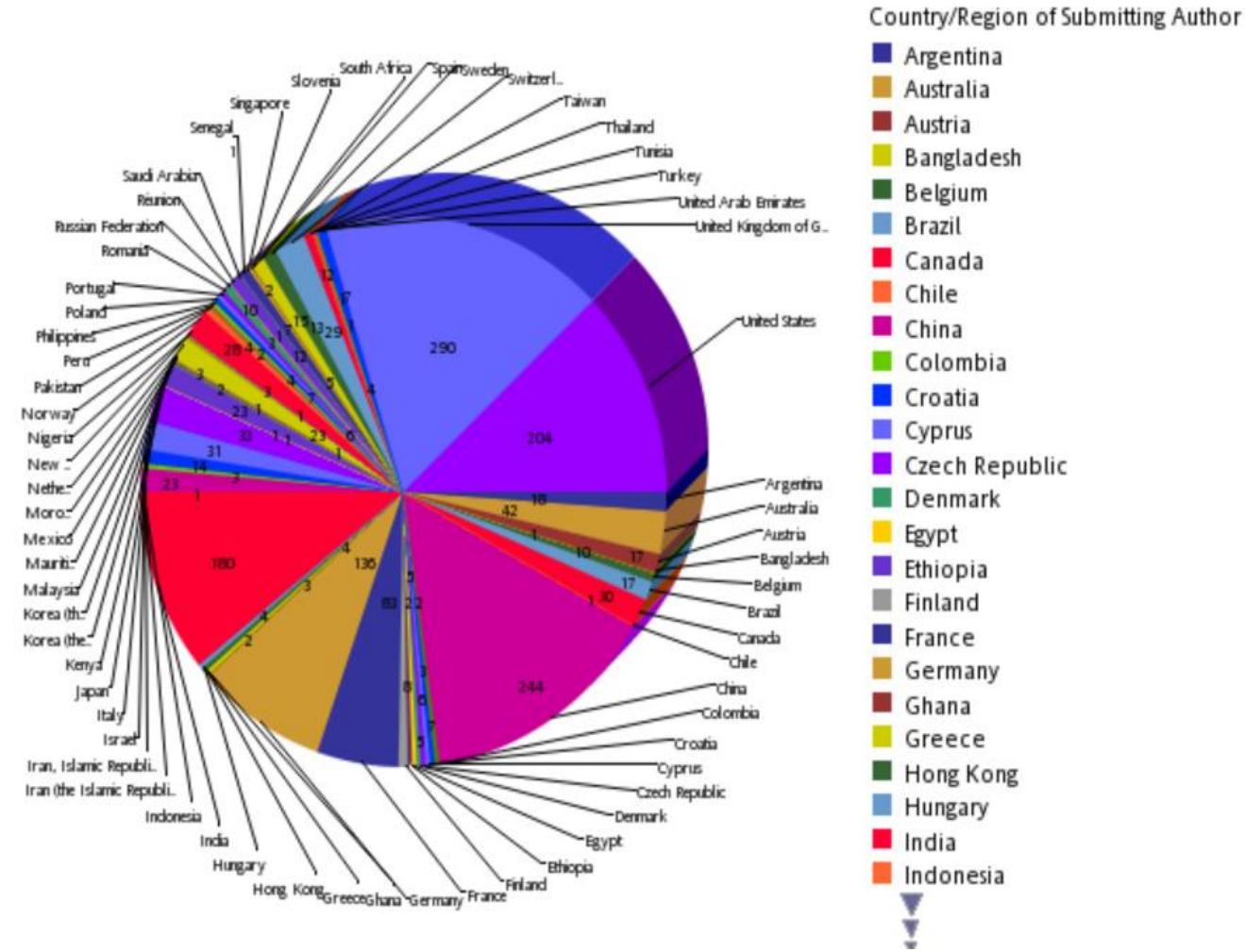
- Rodgers & Walshaw (1966) – radiative heating rate calculations quantifying cooling to space

➤ Earth Observation

- Barnett et al (1972) – first temperature profiles retrieved from satellite (Nimbus 4)

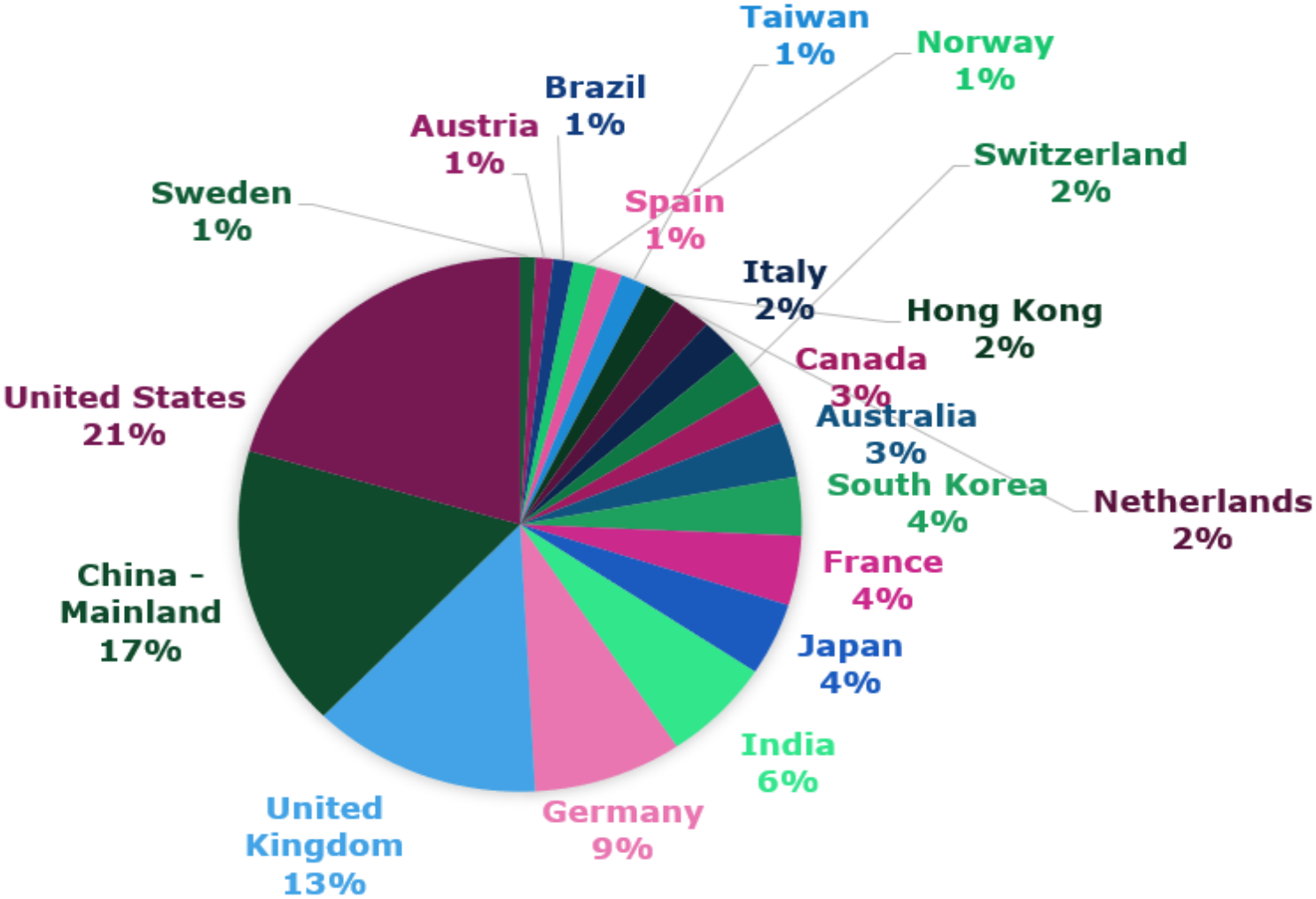
Number of Manuscripts by Country (2019-2023)

Number of Manuscripts by Country/Region



Country/Region of Submitting Author	# Manuscripts	Percentage
United Kingdom of Great Britain and Northern Ireland	290	17.4 %
China	244	14.7 %
United States	204	12.3 %
India	180	10.8 %
Germany	136	8.2 %
France	83	5.0 %
Australia	42	2.5 %
Japan	33	2.0 %
Italy	31	1.9 %
Canada	30	1.8 %
Switzerland	29	1.7 %
Norway	28	1.7 %
Iran (the Islamic Republic of)	23	1.4 %
Korea (the Republic of)	23	1.4 %
Netherlands	23	1.4 %
Argentina	18	1.1 %
Austria	17	1.0 %
Brazil	17	1.0 %
Spain	15	0.9 %
Israel	14	0.8 %

Downloads by Country (Jan-Sept 2023)



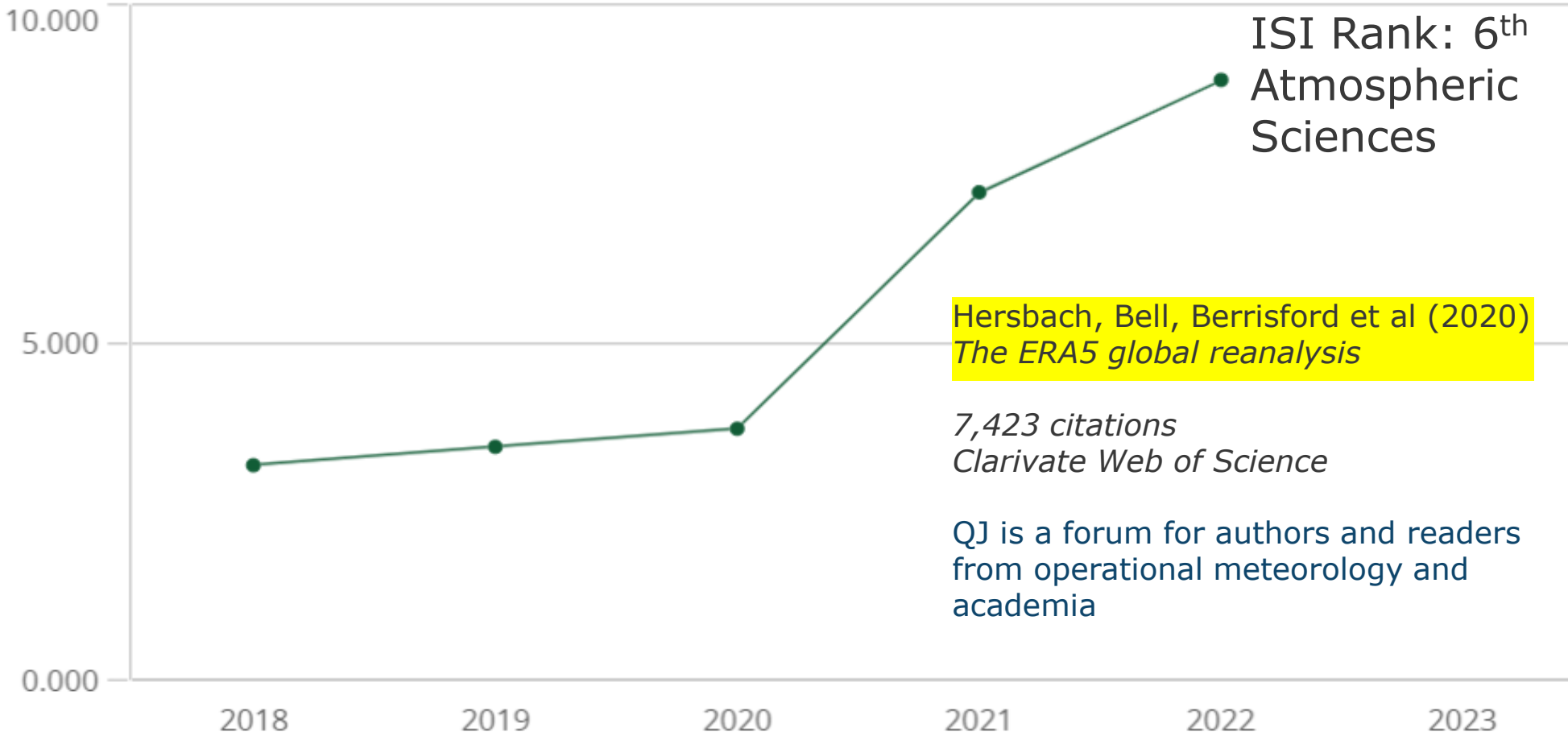
Country/Region	Total Downloads
United States	55,012
China - Mainland	45,824
United Kingdom	35,160
Germany	22,859
India	16,894
Japan	11,757
France	11,251
South Korea	9,490
Australia	8,989
Canada	6,802
Switzerland	6,468
Italy	6,107
Netherlands	6,032
Hong Kong	5,036
Taiwan	4,009
Spain	3,963
Norway	3,622
Brazil	3,117
Austria	2,672
Sweden	2,392

Inclusiveness in Global Authorship

Relation to R Met S and QJ policy

- QJ encourages submissions of high quality articles from around the World
- No author page charges (important for authors from countries/organisations without funding for publication costs)
- Encourage Open Access (for readers) and Open Data (although funding Open Access publication is a rapidly evolving topic – e.g., national *transitional deals*)
- Publication is a vital part of the Society's role and it depends on the income too
- Solution so far is a hybrid funding model ⇒ *panel discussion this afternoon*

Impact Factor (2018-2022)



RMetS Quarterly Journal: Celebrating 150 Years

Spanning the science of the journal

- **Rosby Waves**
 - **Tim Woolings, University of Oxford**
- **Data Assimilation**
 - **Anthony McNally, ECMWF**
- **Numerical Weather Prediction**
 - **Brian Golding, Met Office**
- **Microphysics and Evolution of Cloud and Rain Drops**
 - **Alan Blyth**
- **Lunch**
- **Publishing Panel Discussion**
- **Advances in Climate Science**
 - **Joanna Haigh**
- **The Stratosphere**
 - **Mark Baldwin**
- **Oceanographic Research**
 - **Bablu Sinha**
- **Remote Sensing Observations**
 - **Thorwald Stein**
- **Invited poster presentations by R Met S prize winners**