



RMets

Royal Meteorological Society

*Promoting the understanding and application
of meteorology for the benefit of all*

Membership Handbook 2020

170TH ANNIVERSARY

*Engage
Enthuse
Educate*



rmets.org



theweatherclub.org.uk



metlink.org

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Message from the President and Chief Executive

The Society will be celebrating its anniversary in 2020. 170 years ago, on Wednesday 3rd April 1850, a small group of gentlemen met in the library of astronomer Dr John Lee's home, at Hartwell House in Aylesbury. They gathered to form a society that aimed to support "the advancement and extension of meteorological science"; this society would become the Royal Meteorological Society. Other founding members present that day included James Glaisher and Samuel Charles Whitbread, the Society's first President. By the time the group met again a month later, the number of members had increased to 90 individuals and included famous meteorologist Luke Howard, known for naming clouds.

Our mission today is similar to what it was 170 years ago, and both the science and the profession of meteorology has advanced over time. The change in our climate is depicted in the warming stripes below, created by Prof Ed Hawkins at the University of Reading. These stripes run from 1850, the year the Society was founded, and demonstrate long term temperature trends.

Meteorology is as important today as it was 170 years ago. The Society continues to play a key role in supporting the science and profession for the benefit of all, which we couldn't do without the help of our members and those who volunteer their time to support the activities we deliver. I hope you will join us during 2020 at one of our many events to celebrate this milestone.

Council and Committees

The Society is governed by a Council of Trustees who meet three times a year to set the strategic direction of the Society and review the delivery of its programmes of work.



President

David Warrilow,
OBE, FRMetS,
Consultant



Treasurer

Jennifer Campbell,
Consultant



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Shanti Majithia,
FRMetS, FRSS, Energy
and Climate Advisor



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Vice-President

David Griggs, PhD,
FRMetS, Retired



Vice-President

Derek Swannick,
FRMetS, FCMI,
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Vice-President

Jon Petch, PhD,
FRMetS, Met Office

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Accreditation Board

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Climate Science Comms Group

Peter Stott, PhD, FRMetS, Met Office

Education and Outreach Committee

Jenny Rourke, PhD, FRMetS, CMet, ECMWF

Scientific Publishing Committee

Anna Ghelli, PhD, FRMetS, ECMWF

Meetings and Conferences Committee

Amanda Maycock, PhD, University of Leeds

Members of Council

Aisling Creevey, FRMetS, RMet, ITV Anglia

Helen Rossington, FRMetS, RMet, MeteoGroup

Karl Shepherdson, FRMetS, Met Office

If you are interested in joining our Council of Trustees, or want to find out more about the work they do, please contact chief.exec@rmets.org.

Staff

The Chief Executive and her team are responsible for the executive management and day-to-day running of the Society. The majority of staff are based at the Society's HQ in Reading.



Chief Executive
Liz Bentley



Membership Secretary
Catherine Parker



Head of Education
Sylvia Knight



Financial Officer
Sian Cave



Interim Head of Partnerships
Amanda Callard



Office Manager
Kate Groom



Head of Scientific Engagement and Innovation
Alison Brown



Interim Events Manager
Catherine Bicknell



IT Project Manager
Kathy Maxwell



Interim Comms and Admin Assistant
Juan Estrella Martinez



Events Assistant
Suzie Kelly

Ella Clarke and Victoria Dickinson are on maternity leave and will be returning in 2020.

Membership, Grants and Bursaries

Members

Members can enjoy the many benefits the Society has to offer such as our monthly *Weather* journal, regular e-newsletter with updates on Society events and activities, access to all the Society's journals online for an additional £10 per year, and discounts to attend the Society's paid events, shop items and books.

Members can also access the Society's online CPD (Continuing Professional Development) tool, ACCSYS and have the opportunity to apply to become a Registered or Chartered Meteorologist.

Fellowship (FRMetS)

Fellowship of the Society is our highest level of membership. The Society's new Fellowship Scheme is more inclusive and we are now accepting applications from amateur enthusiasts as well as professionals. The new scheme is meant for anyone who makes substantial contributions to meteorology and related sciences, whether as an observer, amateur enthusiast, academic, teacher, professional, entrepreneur, innovator or Society volunteer.

The Fellowship Scheme is open to anyone who satisfies the following two requirements:

- i. Has a formal academic qualification involving meteorology, or a vocational qualification in meteorology, or long involvement in a variety of meteorological activities at a professional level or as an amateur enthusiast.
- ii. Makes substantial contributions to promoting meteorology as a science, profession or interest.

All applications must be supported by two referees, one of whom must be a Fellow of the Society. Guidance and information about applying are on our Fellowship Scheme webpage at www.rmets.org/fellowship-scheme.

Students

The Society has an active student community with many student members taking advantage of access to mentoring, legacy funds and grants, discounts to attend conferences, and professional development opportunities that can assist in finding future employment. Student members also benefit from a 50% discount on membership fees for three years after graduation.

The Society also runs a student ambassador programme - find out more and meet some of the ambassadors www.rmets.org/student-community.

Grants and Bursaries

An important way the Society supports excellence in meteorology and contributes to the advancement of the science is via its grant schemes.



Legacies Fund

Small monetary grants made to members (usually younger scientists) to help finance expeditions, carry out research or attend meteorological conferences.



Carers' Fund

Monetary grants to help members attend meteorologically-related events or conferences that they may otherwise be unable to attend because of caring responsibilities.



Rupert Ford Award

Used to sponsor travel to enable young scientists to undertake research, work or study at a centre of excellence outside their own country.

Professional Accreditation, CPD and ACCSYS

Becoming professionally accredited enables individuals to be recognised for their meteorological expertise and provides a benchmark to standards acknowledged across the wider meteorological community. Those working in the practice, application, advancement or teaching of meteorology can apply to become accredited, subject to the appropriate combination of qualifications and experience.

The Society offers two professional accreditation schemes:

Chartered Meteorologist

Chartered Meteorologist (CMet) is the highest professional qualification available in meteorology within the UK, and is well recognised by both UK and EU employers. In order to apply for CMet, you should be able to demonstrate an outstanding level of professional performance and scientific knowledge, with a specialist area of meteorology. There are currently 73 CMets.



Registered Meteorologist

Registered Meteorologist (RMet) is an accreditation aimed at those who are within the early stages of pursuing a career in meteorology, or working in a role supporting meteorological services. It is ideal for meteorologists who seek professional accreditation, which can assist with further career development, as well as act as a stepping stone to CMet. There are currently 105 RMets.



Continuing Professional Development (CPD) is an important ongoing process that ensures you remain competent in your profession. As a member of the Society you have exclusive use of ACCSYS; the Society's online accreditation application and CPD system.

ACCSYS

To use ACCSYS, all you need to do is log-in to your online account.

ACCSYS can be used to:



Build a detailed record of CPD activity, which can be used for tracking your development.



Apply for professional accreditation awards (Registered or Chartered Meteorologist).

Once you've entered your CPD records, you can create reports which can then be saved as PDF's, emailed or printed. The report can even be presented to current and future employers and be used during appraisals and reviews. Log on and begin collating your CPD at www.rmets.org/accsys.

ACCSYS has recently been audited with future improvements scheduled for 2020.

Education

The aim of the Education and Outreach Committee is to bring weather and climate science to informal and formal education. We believe that every student should leave school with:

Basic weather literacy that enables them to understand the weather that affects them, their leisure activities and the careers they choose to follow.

Basic climate literacy that enables them to engage with the messages put forward by the media or politicians, or to make informed decisions about their own opportunities and responsibilities.



Formal Education Highlights

- Worked with OCR to improve weather and climate teaching in GCSE geography
- Worked with OUP to improve age 11-14 weather and climate teaching
- Began Planning for a Future Curriculum, to enable the Society to engage efficiently and effectively with future curriculum reviews across the UK
- Responded to the new draft curriculum for Wales
- Delivered teacher training across England, Scotland and Northern Ireland
- Hosted two extended runs of our free online weather course, Come Rain or Shine.

New Resources

- Tropical Cyclones scheme of work for age 11-14 geography
- Series of short films including "The Passage of a Depression" and "Using Tree Rings to Detect Past Weather and Climate"
- A set of films showing how infrared cameras may be used to demonstrate various atmospheric processes, with Imperial College London
- We partnered with Create Education to produce resources which will enable schools to 3D print sections of the Central England Temperature record and use the model for weather and climate learning.

Public Engagement

Each year the Society conducts a programme of activities and events to promote public engagement with weather and climate.

Through theWeather Club – www.theWeatherClub.org.uk – the Society keeps the public up to date about weather, climate and research news. This year a new feature was launched, called "My Research" where doctoral researchers share insights into their science. Anyone can freely view theWeather Club articles and sign up for the quarterly Newsletter.

explaining important aspects of climate science, which are freely accessible on the Society's website rmets.org. This year's publications included papers on solar variability, attribution of extreme weather events and global carbon budgets with more scheduled for 2020.

We partner with different organisations to help deliver our strategy. We jointly developed climate change communication training for broadcast meteorologists and delivered six days training.

In association with the Royal Geographic Society and the English Speaking Union, the Society is taking part in a public engagement event at the House of Lords. Every year the House of Lords opens its doors to people from across the UK to take part in a topical debate. The focus of this debate will be on climate change, exploring how we can reach a sustainable future. 50 members have been given the chance to attend this unique event.

The Society is active on Social Media, with 10,000 Twitter followers, 2,500+ followers Facebook and 2,000+ on Instagram. Each year the Society is involved with over 150 media interviews, with summer 2019 being particularly active.

The Society has now run its Weather Photographer of the Year competition for four years. We are very grateful to MeteoGroup for sponsoring the competition in 2019. More than 5,700 photographs were submitted from nearly 2,000 photographers. Twenty-four images were shortlisted for a public vote, and the winners and runners up were announced at WeatherLive.

The Society's Climate Science Communications Group produce a series of briefing notes and podcasts, clearly and concisely

170TH ANNIVERSARY

1850

Founded as the British Meteorological Society



1856

Eunice Newton Foote first demonstrated heat-trapping properties of carbon dioxide

1859

SS Royal Charter wrecked in storm

1850

1861

Storm warnings introduced by Robert FitzRoy using telegraph communications

1866

Became the Meteorological Society, incorporated by Royal Charter

1871

First edition of the Quarterly Journal of the RMetS

1877

Eleanor Ormerod elected as first female fellow

1881

Eyemouth disaster

Blizzard of January 1881

1883

Became the Royal Meteorological Society

1896

Swedish chemist Svante Arrhenius proposes concept of man-made greenhouse effect

1902

Tower of the Winds adopted as the Society's emblem



1904

Prince of Wales becomes Patron

1921

Bought premises at 49 Cromwell Road

1926

Memoirs of the Royal Meteorological Society first published

1928

1928 Thames flood

1944

D-Day forecast by James Stagg

1946-47

Severe snowfall of 1946-1947

Weather magazine launched

1952

Lynmouth flood of 1952

The Great Smog

1953

North Sea flood of 1953

1st televised weather forecast involving a weather presenter

1958

The Keeling Curve plots average amounts of carbon dioxide in the atmosphere

1962-63

Severe winter of 1962 - 1963 over much of the UK

1968

Great Flood of 1968 in South East England

1968 Scotland storm - Hurricane Low Q

1971

Society moves to Bracknell

1974-1976

The two-year drought and the 1976 heat wave

Gale of January 1976

1978

1978 North Sea storm surge

1979

First World Climate Conference sponsored by the World Meteorological Organisation

FastNet yachting race disaster

1982

Thames Barrier completed

1987

Great Storm of 1987

1988

Intergovernmental Panel on Climate Change (IPCC) set up by the World Meteorological Organization and the United Nations Environment Program

1990

IPCC delivers its first assessment on the state of climate change

Burns' Day storm

1991

Society moved to Reading

1995

IPCC Second Assessment Report

1997

Kyoto Protocol commits state parties to reduce greenhouse gas emissions

1998

1998 Easter floods (Midlands)

2001

IPCC Third Assessment Report

2003

2003 European heat wave

2004

RMetS adopted new sunburst logo



Boscastle flood of 2004

2005

Carlisle floods of 2005

Birmingham Tornado

2006

London Tornado

2007

Atlantic Storm Kyrill

United Kingdom floods

IPCC Fourth Assessment Report

2008

First female President: Julia Slingo OBE

First OU Course in Understanding the Weather launched

2009

First RMetS MOU signed with Met Office

Great Britain and Ireland floods



2010

theWeatherClub launched

Metlink formally launched

Eyjafjallajökull erupts

2011

First full year of training trainee teachers



2012

WAMFest

2012 Great Britain and Ireland floods

Concerns over drought followed by wettest April to June on record

2012

New RMetS website launched

Establishment of RMetS' Climate Science Communications Group

2013-2014

Weather Club website launched

Winter Storms and floods of 2013-14

First Female Chief Executive: Prof Liz Bentley

2016

RMetS and Reading University on-line course Come Rain or Shine goes live

First Weather Photographer of the Year Competition

2017

First WeatherLive Conference



2020

2018

Beast from the East followed by a summer heatwave

First Climate Strike

Ed Hawkins develops Warming Stripes

2019

July hottest month on record

First RMetS Climate Change Forum



2015

Paris Agreement within the United Nations Framework Convention on Climate Change drafted

First RMetS Climate Science Briefing Paper published



RMetS
Royal Meteorological Society

Scientific Publishing

The Scientific Publishing Committee oversees the Society's publishing portfolio and aims to produce high quality content that covers research in meteorology, climate science and related subjects.

Journals



The Society publishes seven international peer reviewed journals:

- The *Quarterly Journal* is the Society's flagship journal, launched in 1871 and acknowledged as one of the world's leading meteorological publications
- *International Journal of Climatology*, publishes 15 issues per year and spans the well established but rapidly growing field of climatology
- *Meteorological Applications* is a fully open access journal which serves the needs of applied meteorologists, forecasters and users of meteorological services
- *WIREs Climate Change* is a review journal covering interdisciplinary research in climate change
- *Atmospheric Science Letters* is fully open access, publishing short papers in the field of atmospheric and closely related sciences
- *Geoscience Data Journal* is fully open access, publishing short data papers recognising the value of data and the communication and exploitation of data to the wider science and stakeholder communities
- *Weather* is the 'house journal' of the Society. It aims to serve as a bridge between the interests of those having a professional and a general interest in the weather, as well as between meteorologists and others working in related sciences

Members can access all journals online for just £10 per year



Contact membership@rmets.org for more information.

Members who are corresponding authors are entitled to a 20% discount on any open access submissions to the Society's journals.

Books

Our academic book series 'Advancing Weather and Climate Science', contains content suitable for undergraduate and postgraduate study, as well as providing a useful resource for the professional meteorologist or earth system scientist. The full list of available book titles can be seen on the Society website and are available at a **35% discount** for members.

The Society also offers its members a range of non-academic books which include titles such as the Weather Watchers 3 Year Log Book, The Aeronauts and the Ladybird book on Climate Change. These books can be purchased at a discounted member rate through our online shop.

35%
discount for
members

Conferences, Meetings and Events

Conferences

The Society plans to host four conferences in 2020. The Climate Change Forum, which was held for the first time in 2019, Atmospheric Science Conference, which is jointly run by the Society and NCAS, the Student and Early Career Scientist Conference and WeatherLive, which is our amateur conference aimed at anyone with an interest in the weather. All of the conferences are listed on the website with their dates, locations and details on how to register. The conferences all offer discounted delegate rates for members.

"Fantastic networking for my CPD. Made some great contacts and hopefully accessed some future opportunities".

"Excellent range of speakers from different meteorological backgrounds".

Meetings and Events

In addition to its Annual Conferences, the Society facilitates and supports a diverse number of events and meetings that bring together the meteorological community to share knowledge and engage with the science across a number of platforms in venues around the UK.

With more demand on people's time and different ways of communicating the Society has adapted and broadened the way in which we transfer knowledge. This includes National Meetings, Conferences, Workshops, Training, Local Centre, and Special Interest Meetings, Remote Participation, Podcasts and on-line Meeting Resources.

In 2019 there were:



Most of our meetings are free to attend. To see a full list of forthcoming events visit www.rmets.org/events.

Local Centres

The Society has a number of local centres across the UK, where meetings are held throughout the year.

Like the Society itself, Local Centres hold meetings throughout the year all over the UK. Volunteering at a local centre is a great opportunity to network and share your interest in meteorology with like-minded individuals.

If you would like to volunteer or have any questions, please email meetings@rmets.org.



Special Interest Groups

Our Special Interest Groups pursue specific meteorological areas of interest. The meetings tend to be smaller depending on the group and topic. Our groups usually hold their own meetings at places and times determined by the group. The latest details can also be found in our online Calendar.

- Atmospheric Chemistry
- Atmospheric Electricity
- Aviation Meteorology
- Climate Science
- Data Assimilation
- History
- Meteorological Observing Systems
- Weather, Arts and Music

Partnerships and Corporate Members

Promoting the understanding and application of weather and climate is a huge task and we rely on our partners to work with us and help support our work. By working together we can achieve far more than working alone.



Collaboration

RMetS has continued to work and collaborate with a wide range of partners throughout the year. We develop bespoke strategic relationships as well as welcoming organisations to become Corporate Members. Partnerships are vital and the Society could not function without them.



Achieving Our Mission

We partner with business and industry, NGO's and non-governmental bodies, academic institutions and Government to drive our work forward and achieve our mission.



Our Partners

From training broadcast meteorologists about climate science communication to increase public understanding of our changing climate, to our long-standing co-operation with the Met Office, delivering joint events with the RHS, MeteoGroup's sponsorship of WPOTY and our collaboration with the Grantham Institute - Climate Change and Environment, we are grateful to all our partners.



Reciprocal Agreements

Our reciprocal agreements with the American Meteorological Society, the Australian Meteorological and Oceanographic Society, the Canadian Meteorological and Oceanographic Society, the Institute of Physics and the Royal Photographic Society make a real difference to our members.



We remain very grateful to all our Corporate Members whose support is crucial to our success:

Met Office	Fondazione Osservatorio Meteorologico di Milano Duomo
PCE Instruments UK Ltd	ArabiaWeather Inc
MetDesk Ltd	Vaisala OYJ
Equinox Instruments Ltd	BIRAL
Lake Street Consulting Ltd	Richard Paul Russell Ltd
StormGeo Ltd	
Campbell Scientific	
Rotronic Instruments (UK) Ltd	

Awards



The Awards and Prizes winners for 2018, listed below, were presented at the Society's Annual General Meeting in London on 15th May 2019.

The Symons Gold Medal

Dr Clive D Rodgers, University of Oxford (Emeritus)

The Hugh Robert Mill Award

Professor Alan Blyth, National Centre for Atmospheric Science (NCAS), University of Leeds

The L F Richardson Prize

Dr Kirsty Hanley, Met Office

The Michael Hunt Award

Gavin Pretor-Pinney, founder of the Cloud Appreciation Society

The Adrian Gill Prize

Dr Michael J Bell, Met Office

The Vaisala Award

Professor Tom Rippeth, Bangor University

The Malcolm Walker Award

Dr Matthew Menary, LOCEAN (Sorbonne Université)

The Climate Science Communications Award

Professor Peter Stott, Met Office Hadley Centre

The Society's Outstanding Service Award

Dr Ian D Phillips, University of Birmingham

The Innovation Award

Awarded to The Scottish Flood Forecasting Service for the project 'Surface Water Flood Forecasting in Urban Communities'. The team included: Linda Speight (SEPA), Sohan Ghimire (The James Hutton Institute), Sarah Dunn (The James Hutton Institute), Brian Golding (Met Office), Clive Pierce (Met Office), Nigel Roberts (Met Office), Bruce Wright (Met Office), Robert Moore (CEH Wallingford), Steven Cole (CEH Wallingford), Amy Tavendale (SEPA) and Juzer Dhondia (CPAESS - UCAR, USA - formerly Deltares, NL)



The Meteorological Applications Editor's Award

Dr Anna Ghelli, ECMWF

The International Journal of Climatology Editor's Award

Dr Sergio M. Vicente-Serrano, Pyrenean Institute of Ecology

The Atmospheric Science Letters Editor's Award

Dr Sven-Erik Gryning, Technical University of Denmark

The Quarterly Journal Editor's Award

Professor Maarten H P Ambaum, University of Reading

The Quarterly Journal Reviewer's Certificate

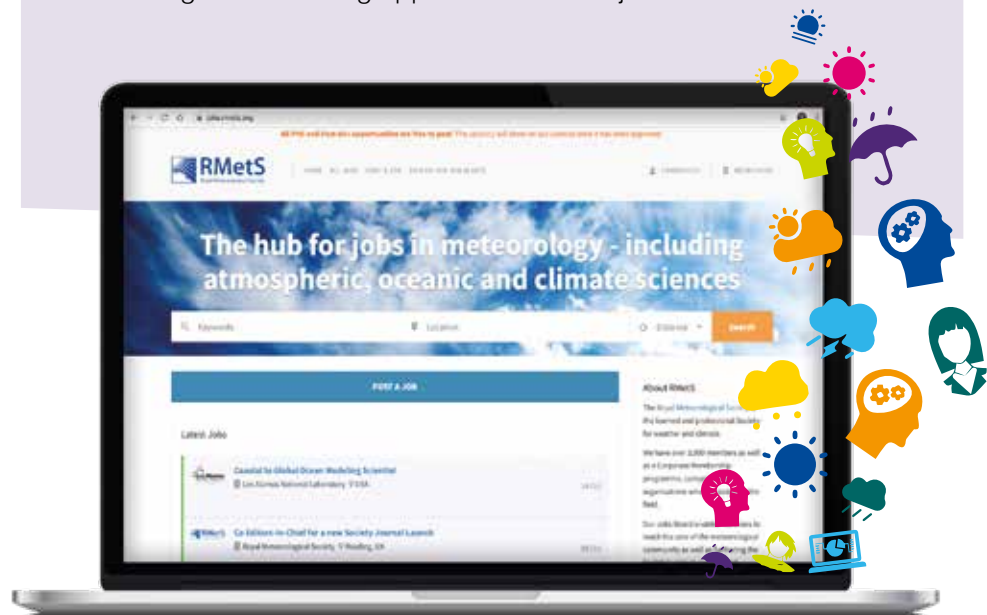
Dr Alan Geer, ECMWF
Dr Nils Gustafsson, SMHI



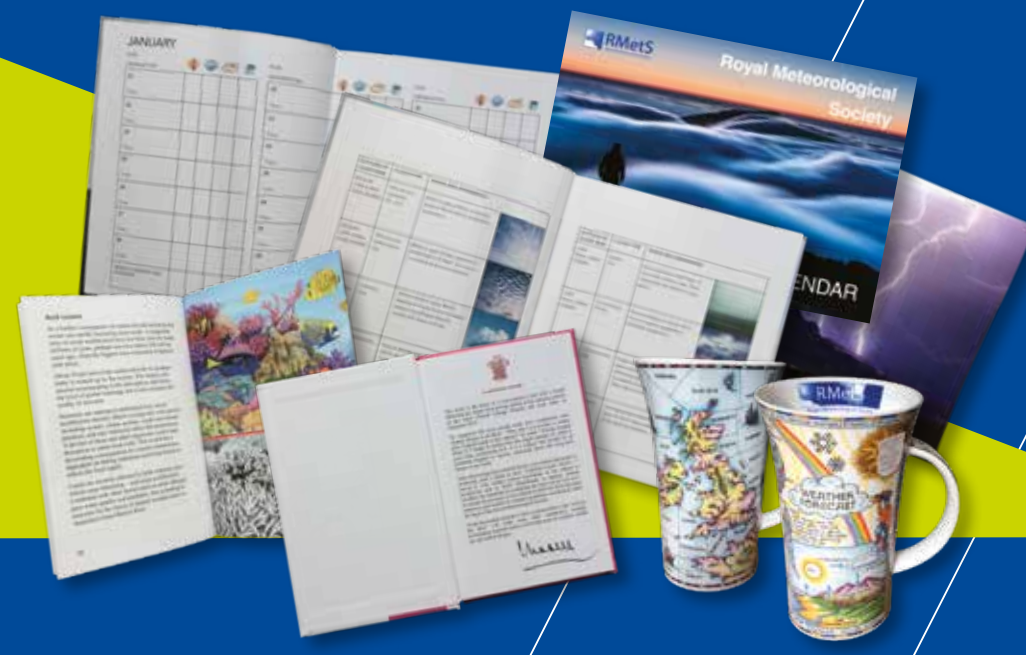
Jobs Board

Visit www.jobs.rmets.org to sign up for job alerts and view the latest vacancies.

For people looking for new positions, or for employers looking for new candidates, the Society has a new jobs board. It features all kinds of international career opportunities in meteorology - including atmospheric, oceanographic and climate sciences. Vacancies, which include academic and industry positions, are communicated through the Society's social media networks and various channels. As well as positions which are directly posted on our site, partner job feeds bring a range of interesting opportunities to our jobs board users.



RMets Shop



In 2019 the Society's online shop was revamped to create a more user-friendly shopping experience.

We launched a book endorsement programme which allows Society members to purchase books of interest for less than the RRP, as well as opportunities to pre-order the books with exclusive priority discounts. Our 2020 Calendar was created using shortlisted and winning images from the Weather Photographer of the Year 2019 competition, and the stunning photographs were also used to create a new set of postcards which were introduced with no plastic packaging as part of our ongoing mission to be environmentally friendly.

Our range of merchandise continues to grow, with a silver plated weather station in the collection which makes a classy addition to any home or office. The ever popular Ladybird Expert: Climate Change book provides clear, accessible and authoritative introductions to subjects drawn from science, history and culture, and remains one of our frequently purchased items.

New products will continue to be introduced in 2020, all of which will be available to purchase using your **exclusive member-only 20% discount code (MEMBER20).**

www.shop.rmets.org



RMets

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of meteorology for the benefit of all*

170TH ANNIVERSARY



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