

World Climate Research Programme

Strategic Plan 2019-2029

Overview

1. **The World Climate Research Programme**
(including vision, mission and core values of the Programme)
2. **Forty years of successful international climate science**
3. **The World Climate Research Programme in the next 10 years**
(including addressing “future surprises in the climate system”)
4. **Overarching scientific objectives of the Programme**
 - O1. Processes (climate analysis)
 - O2. Predictability (climate predictions)
 - O3. Sensitivity (climate projections)
5. **Emphases of the Programme**
 - E1. The contribution of the Earth’s system components to the climate system
 - E2. The ocean in the Earth system
 - E3. The atmosphere in the Earth system
 - E4. The land in the Earth system
 - E5. The cryosphere in the Earth system
 - E6. The regions in the Earth system
 - E7. Coupling spatial and temporal scales across Earth system components
6. **Imperatives for the Programme**

Integrating knowledge across scales and disciplines

 - I1. Ground-breaking Earth system models
 - I2. State-of-the-art observations in support of climate science
 - I3. Exascale computing and data infrastructures
 - I4. A Vibrant Climate Community Around the World
 - I5. Strong Partnerships
 - I6. Communication, Outreach
 - I7. Capacity Development, Education
7. **Closure statement**

Pointing towards the implementation plan and the way forward

as at 21 January 2018