



Reading the Sky

Learning how to use clouds to predict the weather.



Aisling Creevey
@weatheraisling

a little about me...





BBC WEATHER

in association with the Met Office

AISLING CREEVEY

06:29



what do I see when I look up at the sky?



Gareth Squance

CIRROSTRATUS : CIRROSTRATUS STRATIFORMIS UNDULATUS





Gareth Squance
@irishpixel





David Bradley
FOG : CIRROSTRATUS



David Bradley
CIRROSTRATUS



David Bradley
CIRROSTRATUS: CIRROCUMULUS FLOCCUS



CHRIS MITCHELL
PRIMARY RAINBOW : SECONDARY RAINBOW



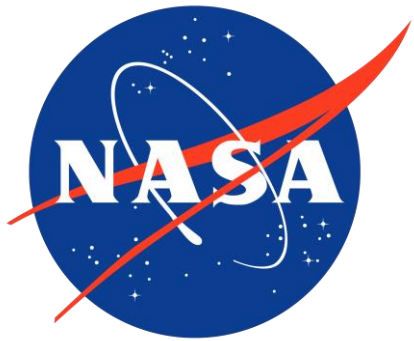
CHRIS MITCHELL
ALOTCUMULUS STRATIFORMIS



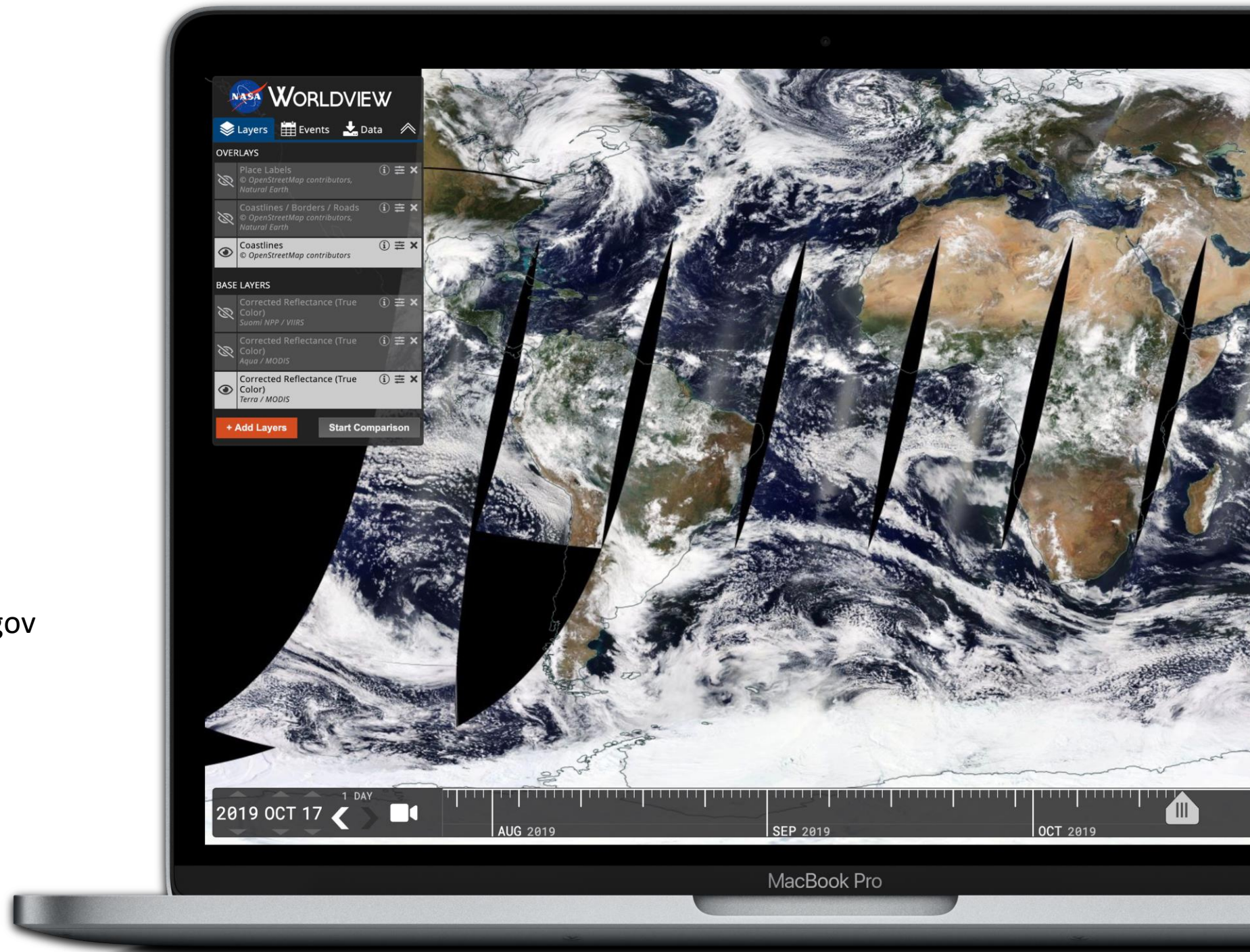
CHRIS MITCHELL

CUMULUS CONGESTUS : CUMULONIMBUS

Observing without the sky..



worldview.earthdata.nasa.gov



CRAY

ECMWF
EUROPEAN CENTRE FOR MEDIUM RANGE WEATHER FORECASTS

CRAY

CRAY

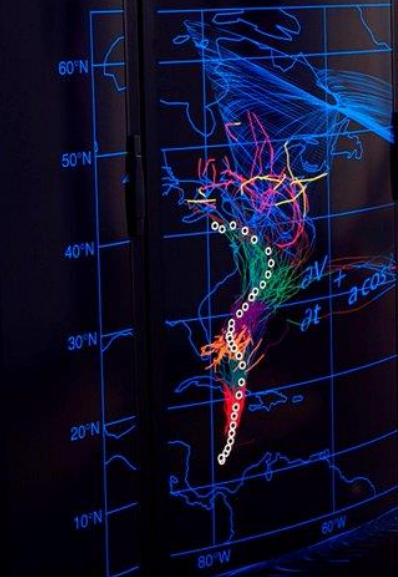
CRAY

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CRAY

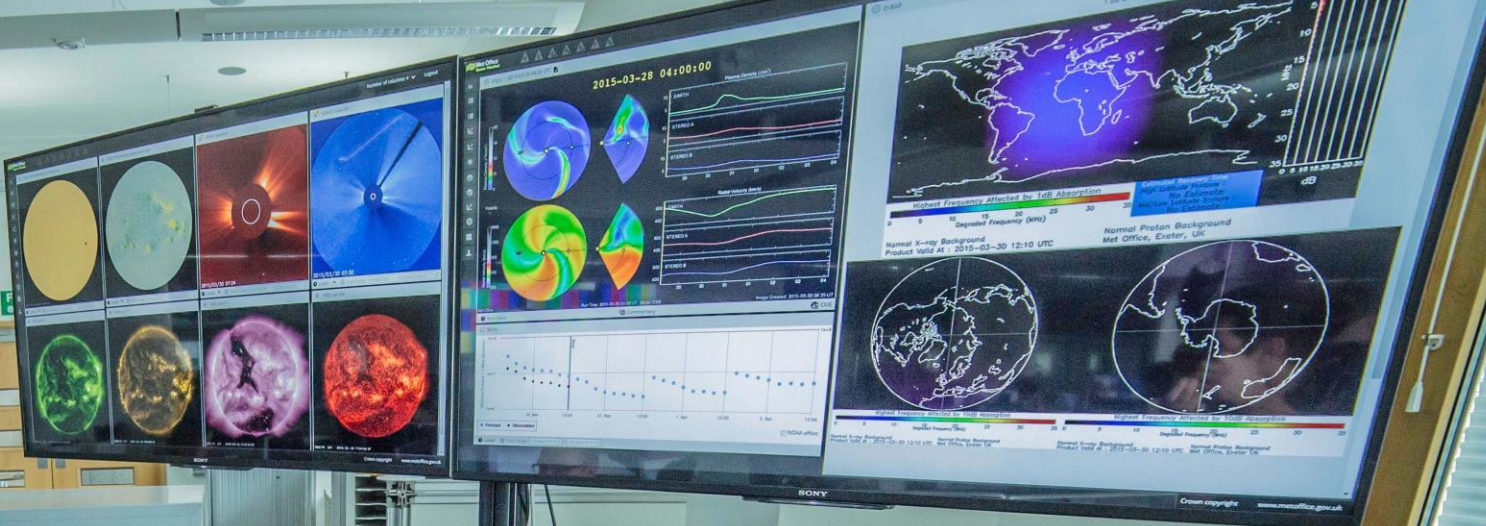
CRAY



A series of mathematical equations and diagrams in blue line-art. The equations include:
$$U + \frac{1}{a \cos^2 \theta} \frac{\partial U}{\partial t}$$
$$U \frac{\partial V}{\partial \lambda} + V \cos \theta \frac{\partial V}{\partial \theta} + \dots$$
$$(U^2 + V^2) \dots$$
$$\frac{\partial V}{\partial \eta} + fU + \dots$$
$$+ V \cos \theta \frac{\partial U}{\partial \theta}$$
$$\frac{\partial U}{\partial t} \dots$$
$$\frac{1}{a} \frac{\partial \theta}{\partial t} \dots$$

Americos







so whats the oldest method of scientific investigation?

observation.



Hanga Roa

Montevideo

South Atlantic Ocean

South Pacific Ocean

Cape Town

Pr

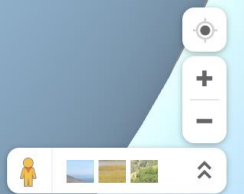
Lesotho

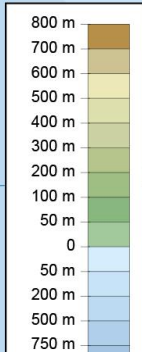
Esw

Durban

Google

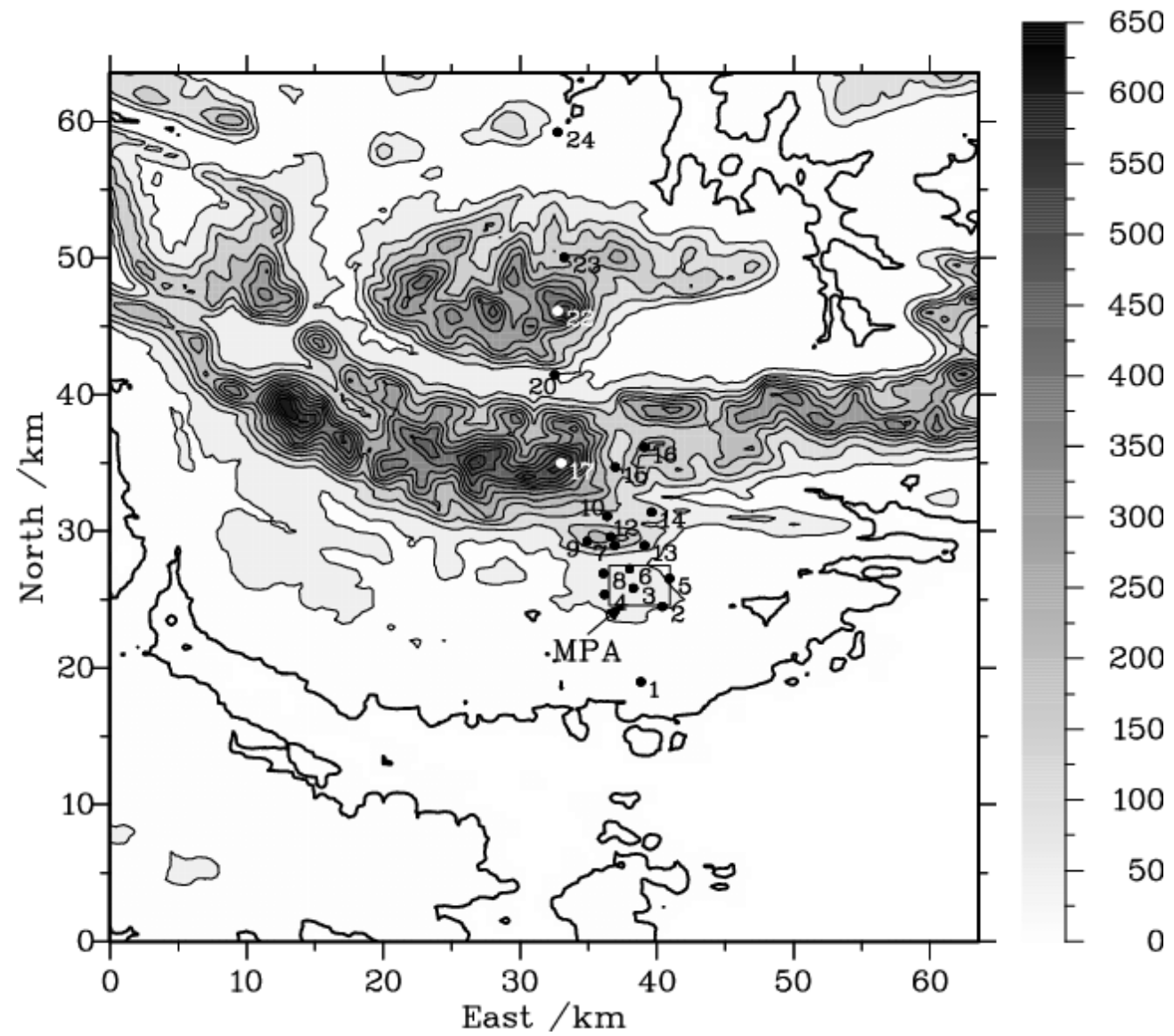
ANTARCTICA





Falkland Islands

the power of observation...





the balloon shed...



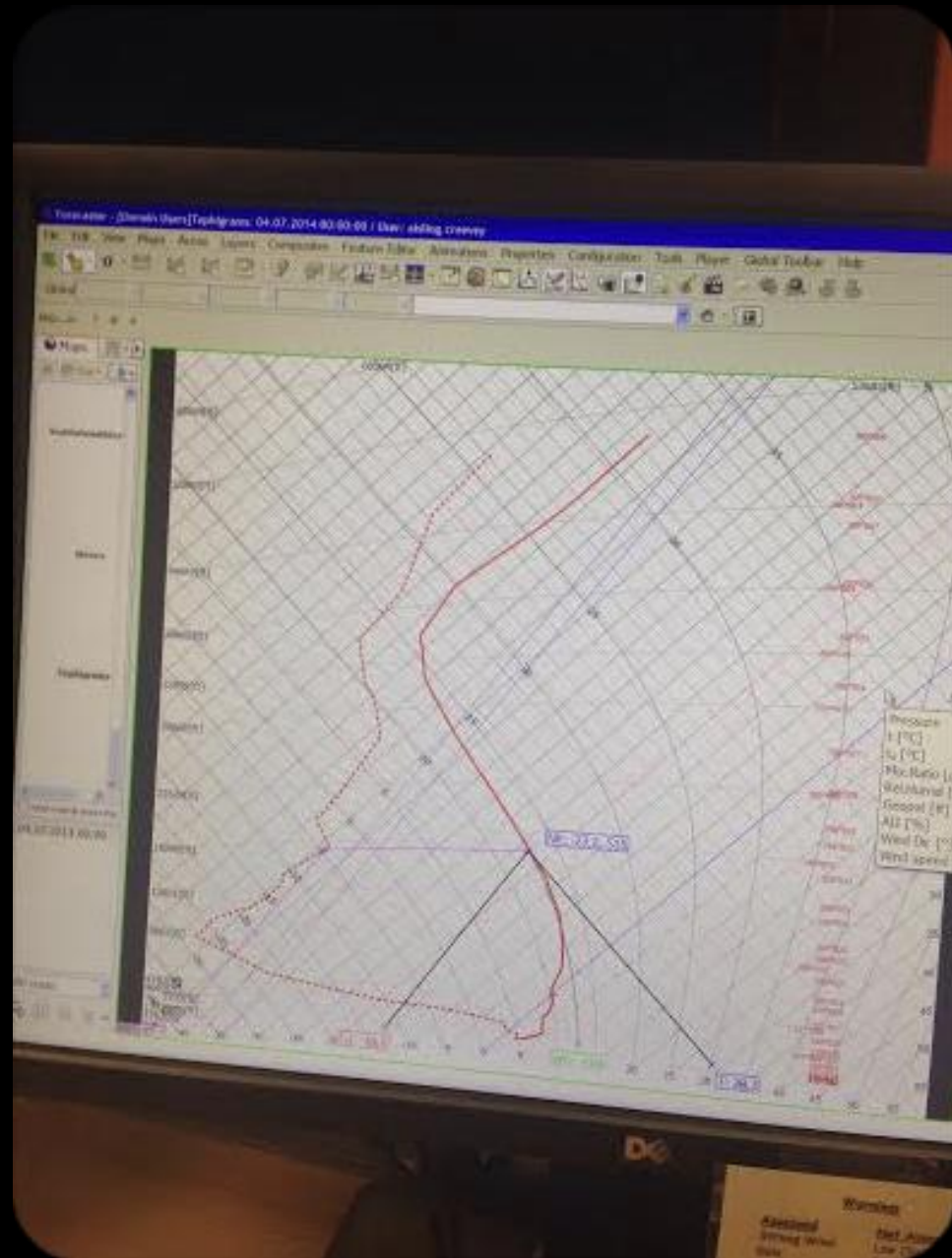




A radiosonde is a battery-powered [telemetry](#) instrument carried into the atmosphere usually by a [weather balloon](#) that measures various [atmospheric parameters](#) and transmits them by radio to a ground receiver.







a tephigram is one of four thermodynamic diagrams commonly used in weather analysis and forecasting.















51.8214° S, 58.4558° W
Cumulonimbus



51.8214° S, 58.4558° W
Mount Pleasant Airfield
06:30am



51.8214° S, 58.4558° W
Mount Pleasant Airfield
06:45am

My time at RAF Odiham





AIKLING CREEVEY
Aurora