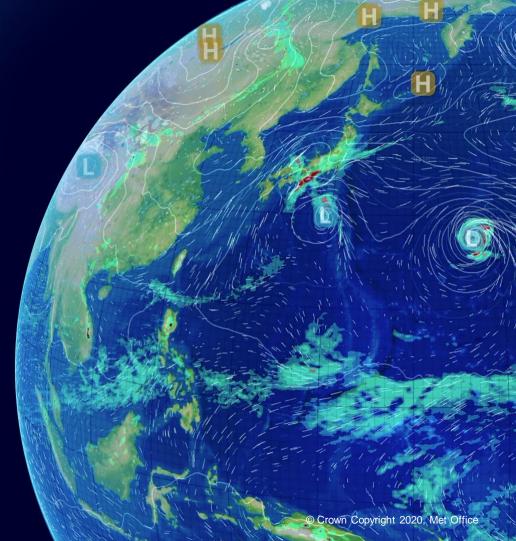


7-24 GHz in the Met Office

Kirsty McBeath, Spectrum Policy Manager

1 December 2022





Helping you make better decisions to stay safe and thrive



Weather forecast ingredients



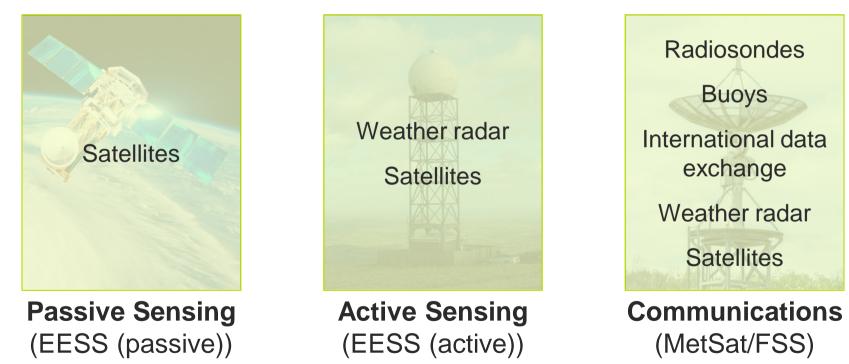
Observations

Modelling & Computing

Meteorologists

Met Office

How we use Spectrum in the Met Office



Met Office

Applications in 7-24 GHz

Frequency	Application		Frequency	Application
6.425-7.075 GHz	Passive Sensing: Sea surface temperature		7.45-7.55 GHz	Communications: meteorological satellite data reception
10.6-10.7 GHz	Passive Sensing: wind, humidity, surface rainfall rate		7.75-7.9 GHz	Communications: meteorological satellite data reception
13.4-13.75 GHz	Active sensing: Scatterometer wind speeds and radar altimeters		8.025-8.4 GHz	Communications: meteorological satellite data reception
18.6-18.8 GHz	Passive sensing: temperature, humidity, cloud water content		10.7-12.5 GHz	Communications: international data sharing
22.21-22.5 GHz	Passive sensing: atmospheric water content	[Full details provided in UK Frequency Allocation Table and Space science and meteorology spectrum allocations in the UK : https://www.ofcom.org.uk/spectrum/information/uk-fat	
23.6-24 GHz	Passive sensing: atmospheric water content, sea ice			



Helping you make better decisions to stay safe and thrive



Questions

For more information please contact



www.metoffice.gov.uk



kirsty.mcbeath@metoffice.gov.uk