

Group name: Atmosphere - composition

	Idea	Short (< 1 year) Medium (1-2 yr) Long (2-5 yr)	NRI team
1	Atmosphere-chemistry-climate at regional scales (air pollution, sources, sinks, aerosols, VOCs, bio-aerosols)	Short,	Atmosphere,
2	<u>Need ACCESS composition support from NRI</u> Integrate atmos chem changes in UKCA into ACCESS trunk, nudging,	Medium	Atmosphere
3	Stratos ozone and aerosols in coupled ocean-atmos-chem model, (ozone hole, next major volcanic eruption, geoeng)	Long	Atmosphere
4	Atmosphere-chemistry-climate at urban scales (air pollution, sources, sinks, aerosols, VOCs, bio-aerosols)	Medium	Atmosphere,
6	Supported model configurations, user info and support	Short	User

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3	Tropospheric chemical processes, sources, sinks, ozone as an important ghg and pollutant, coupled to ocean, air-sea fluxes, air-land fluxes training capability for chemistry code in UM	Medium	Coupled
8	Marine aerosols over the Southern Ocean, GBR, coupled ocean-atmosphere-chem, <u>updated cloud scheme</u>	Medium	Atmosphere
9	Fast-chem version of UKCA for long time scales in troposphere and/or stratosphere, full ESM with coupled chemistry	Long	Atmosphere
10	Observations and simulation synthesis, evaluation, data assimilation	Long	Data Assimilation