

UM-UKCA "2-cpt OM" GLOMAP configuration



UNIVERSITY OF LEEDS

(I_MODE_SETUP=4, SUSSBCOCSO_5mode, 6bin-DU)

Has aerosol mass as "components" in internally mixed modes

MONOTER

SO_4 , sea salt, BC, primary OM1, dust, 2nd organic matter (OM2)

SEC_ORG

primary carbonaceous
Fossil-fuel & bio-fuel
combustion and wildfire

Condensation

In-cloud produced S(VI)
shared between modes
according to ratio of
accum, coarse mode N.

H_2SO_4

Condensation

Insoluble
Aitken
 N_5

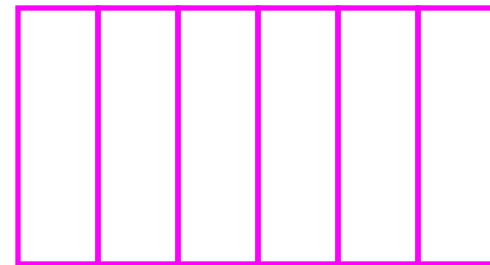
primary
sea-spray
NaCl

Dust

SO_2

OH

BC OM1



DU_1 DU_2 DU_3 DU_4 DU_5 DU_6

DMS

OH, NO_3

Soluble
nucln
 N_1

BC OM1

soluble
Aitken
 N_2

soluble
accum
 N_3

soluble
coarse
 N_4

component
mass conc.

In-cloud
oxidation

SO_4 OM2

SO_4 OM1 OM2
BC

SO_4 OM1 OM2
BC NaCl

SO_4 OM1 OM2
BC NaCl

6 dust
18 mass
5 number

no. conc'ns controlled by NPF, primary emissions, coagulation, removal.

Transported
tracers=29