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**Publications in proposal:**

**WP2: 3**

**WP3: 4**

**WP4: 4**

**WP5: 5**

**Total = 16**

By institute:

**UoE: 5**

**UoM: 1!**

**UoO: 2**

**UoL: 4**

**UoR: 4**

**Met Office: 4**

**Total = 20**

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| --- | --- | --- | --- | --- |
| **In preparation for ACP** | | | | |
|  | WP | Lead Author and Title | Lead Organiatsion | Status |
|  | 3 | Peers et al., Observation of absorbing aerosols above clouds over the South-East Atlantic Ocean from the geostationary satellite SEVIRI – Part 1: Method description and sensitivity | UoE | Draft complete |
|  | 3 | Peers et al., Observation of absorbing aerosols above clouds over the South-East Atlantic Ocean from the geostationary satellite SEVIRI – Part 2: Comparison against MODIS and aircraft measurements from the CLARIFY-2017 campaign | UoE | Draft started |
|  | 3 | Jones et al. Constraints on biomass burning aerosol properties from the CLARIFY-2017 campaign observations of radiation | UoE | In prep |
| 4. | 1 | Haywood et al. Overview of the CLARIFY-2017 campaign; motivation, rationale, deployment and initial results | UoE | NS |
| 5. | 4 | Gordon et al., Large simulated radiative effects of smoke in the south-east Atlantic | UoL | Accepted |
| 6. | 2 | Crawford et al., Observations of cloud microphysics and precipitation formation in Tropical Stratocumulus clouds | UoM | ?Distinction from Barrett et al? |
| 7. | 2 | Connolly et al., Modelling of the link between aerosol properties and cloud microphysics in CLARIFY | UoM | NS – discussion of case study: Hamish/Adrian |
| 8. | 2 | Choularton et al. A comparison of cloud structure in CLARIFY and DACCIWA using Cloud resolving modelling constrained by measurements | UoM | A lot of uncertainty on this one…… |
| 9. | 2 | Dang et al. A characterisation of mixing state of biomass burning particles using a range of offline methods | UoM | PhD investigation of multiple sources. |
| 10. | 2 | Taylor et al. Examining black carbon properties in the SE Atlantic | UoM | Analysis underway |
| 11. | 2 | Wu et al. The vertical distribution of biomass burning and an examination of its air mass history | UoM | Kate and Hamish and steve abel. We’ll do this for asi and for vertical profiles. |
| 12. | 3 | Herbert et al., The semi-direct effect of above-cloud aerosols, in prep for ACP. | UoR | Fanny Peers link to seviri |
| 13. | 5 | Bellouin et al., Drivers of the vertical profile of absorption in HadGEM3, in prep for ACP. | UoR | Integrated model assessment. Will Davis, Jonny T,Ben J and Hamish? |
| 14. | 3 | Johnson et al., Constraining the direct radiative forcing of biomass burning aerosol above cloud in HadGEM3 with POLDER retrievals | Met Office/UoE | Martin de Graaf. CALIOP data/ Hamish, Duncan…. |
| 15. | 2 | Szpek et al., Aerosol in-situ measurements in the vicinity of Ascension Island during CLARIFY-2017 | Met Office | Combining with MC aerosol characterisation. Link to Wu. |
| 16. | 2 | Barrett et al., Aerosol cloud precipitation relationships across a wide range of spatial scales | Met Office | Analysis ongoing…… MO/Machester/LASIC |
| 17. | 2 | Abel et al., Pockets of Open Cell Convection (POCCs) observations during CLARIFY-2017 | Met Office | Draft by christmas 2018 |
| 18. | 4 | Che, H. et al., Near-cloud CCN budgets | UoO |  |
| 19. | 4 | Watson-Parris, D. et al., Constraining BC ageing in GCMs using complimentary in-situ observations | UoO |  |
| 20. | 4 | Watson-Parris, D., Lee, L. et al., Exploring uncertainty in BC forcing due to lifetime, emissions and radiative properties across AeroCom models | UoO, UoL |  |
| 21 |  |  | UoL | Cui |
| 22 |  | UV lidar….. | KNMI | De Graaf |
| 23 |  | Synergy between CALIOP and POLDER and heating rate calculations | UuO | deaconu |
| 24 |  | Clear sky rapid-adjustment to absorption….. | UoR | Herbert |
|  |  |  |  |  |
| **In preparation for AMT** | | | | |
| 18. | 2 | Davies, N. W., Cotterell, M. I., Fox, C., Szpek, K., J.M. Haywood, and Langridge, J. M.: On the accuracy of aerosol photoacoustic spectrometer calibrations using absorption by ozone, Atmos. Meas. Tech., https://doi.org/10.5194/amt-11-2313-2018, 2018. | UoE | Published |
| 19. | 2 | Davies, N.D., et al., Examining biases in filter-based aerosol absorption measurements using photoacoustic spectroscopy. | UoE | Awaiting submission |
| 20. | 2 | Cotterell, M.D. et al., A Finite Element Model to Optimise a Single Resonator Photoacoustic Cell for Sensitive and Accurate Measurements of Atmospheric Aerosol Light Absorption, in preparation for AMT. | UoE | Draft complete |
| 21. | 2 | Cotterell, M.D. et al., Optimisation of a Common Two-Resonator Photoacoustic Cell for Sensitive Measurements of Atmospheric Aerosol Light Absorption, in preparation for AMT. | UoE | Draft complete |