

Appendix A: General campaign data handling timeline protocol

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Post-campaign activities and follow-up:

- First data workshop with 3 months after the campaign:
 - a. to get an overview of the campaign measurement data and its potential for further research and publication,
 - b. to evaluate the last campaign measurement strategy, lessons for future campaigns,
 - c. to define a data protocol timeline.
 - d. to define a follow-up science workshop agenda
- Establish working groups around specific themes and/or science questions and appoint scientific working group PIs.
- Appoint follow-up general science output PI (SO-PI) and general data output PI (DO-PI).
- Organize follow-up workshops to evaluate the scientific progress of the different working groups (lead by the SO-PI and the DO-PI).
- Evaluate what kind of input is needed in support of different Ruisdael modelling initiatives (e.g. DALES).
- Establish a timeline to final data products following the general Ruisdael data protocol with end-products for the KNMI Data Portal.

Basic Ruisdael data handling timeline protocol:

- Step 1: Preliminary, raw data, near-final data, and quick looks on the Ruisdael Research Drive (RRD): 3 months after.
- Step 2: final data on the (RRD): within first year.
- Step 3: final data products on the KNMI Data Portal (KDP): within second year.
- Step 4: dissemination of KDP final data product to the non-Ruisdael science community based on common data formats and extensive meta-data: within the third year.

Ruisdael data products and responsible PIs:

Station / Platform	Data product	Responsible PI	Contact details
Cabauw	Cloud radar observations: vertical profiles, droplet size and	Arnoud Apituley, KNMI	arnoud.apituley@knmi.nl

	number distributions		
Cabauw	Continuous trace gas observations: CO ₂ , CO, CH ₄ , N ₂ O, NH ₃ mole fractions, Radon activity	Arnoud Frumau, TNO	arnoud.frumau@tno.nl
Cabauw	Continuous aerosol observations: Aerosol size and number distributions & composition	Rupert Holzinger, UU	r.holzinger@uu.nl
Lutjewad	Continuous aerosol observations: aerosol size and number distributions & composition	Uli Dusek, RUG	u.dusek@rug.nl
Lutjewad	Continuous trace gas observations: CO ₂ , CO, CH ₄ , N ₂ O, Radon, SF ₆ , H ₂ mole fractions, Radon activity, meteo	Bert Scheeren, RUG	h.a.scheeren@rug.nl
Lutjewad	Cloud radar observations: Cloud droplet vertical profiles, droplet size and number distributions, T & RH% profiles	Herman Russchenberg, TUD Christine Unal, TUD	h.w.j.russchenberg@tudelft.nl c.m.h.unal@tudelft.nl
Loobos	Continuous trace gas observations: CO ₂ , NH ₂ , O ₃ fluxes, meteo	Michiel vd Molen, WUR	michiel.vandermolen@wur.nl
Loobos	Continuous aerosol observations: aerosol size and number distributions & composition	Rupert Holzinger, UU	r.holzinger@uu.nl
Rotterdam-Westmaas	Continuous trace gas observations: CO ₂ , CO, CH ₄ 'Luchtmeetnet' Air quality observations: NO _x , O ₃ , PM ₁₀ , meteo	Hugo Denier van der Gon, TNO	hugo.deniervandergon@tno.nl https://www.luchtmeetnet.nl/
Rotterdam-	Continuous trace	Hugo Denier van der	hugo.deniervandergon@tno.nl

Slufter	gas observations: CO ₂ , CO, CH ₄ 'Luchtmeetnet' Air quality observations: NO _x , PM ₁₀ , PM _{2.5} , meteo	Gon, TNO Bert Scheeren, RUG	h.a.scheeren@rug.nl https://www.luchtmeetnet.nl/
Rotterdam- Geulhaven	'Luchtmeetnet' Air quality observations: benzene, toluene, SO ₂		https://www.luchtmeetnet.nl/
Rotterdam- Zweth	Continuous trace gas observations: CO ₂ , CO, CH ₄	Hugo Denier van der Gon, TNO	hugo.deniervandergon@tno.nl
Drone Aircore	Campaign based in- situ continuous CO ₂ , CH ₄ , CO, N ₂ O flight profiles	Bert Scheeren, RUG Steven van Heuven, RUG	h.a.scheeren@rug.nl s.m.a.c.van.heuven@rug.nl
Sky Arrow PH-WUR	Campaign based fluxes of CO ₂ & meteo	Ronald Hutjes, WUR	ronald.hutjes@wur.nl
TNO Van & Trailer	Campaign based in- situ continuous CO ₂ , CH ₄ , N ₂ O, CO, H ₂ O, C ₂ H ₆ , NO _x , O ₃ , NH ₃ and aerosol	Arjan Hensen, TNO	arjan.hensen@tno.nl
Mobile Cloud Profiler	Campaign based cloud droplet vertical profiles, droplet size and number distributions.	Herman Russchenberg, TUD Christine Unal, TUD	h.w.j.russchenberg@tudelft.nl c.m.h.unal@tudelft.nl