



EXPLORATORY WORKSHOP DADA

Exploring the Use of Data Assimilation Methods
for the Detection and Attribution of Climate Change.

Academia Nacional de Ciencias Exactas, Físicas y Naturales
Buenos Aires, 15-18 October 2012



Hosted by the Instituto Franco-Argentino sobre Estudios de Clima y sus Impactos,
(IFAECI / CNRS-CONICET-UBA).

MONDAY

08:30-09:15 Registration

09:15-09:45 Welcome address (J.-M. Flaud and C. Vera)

09:45-10:15 Workshop scope and objectives (A. Hannart)

10:15-10:45 Coffee Break

Morning Session: Expository lectures on Detection and Attribution, Chair : A. Ribes.

10:45-11:30 D&A: An Outlook (C. Tebaldi)

11:30-12:30 D&A: Methods, Concepts and Challenges (F. Zwiers)

12:30-14:30 Lunch

Afternoon Session: Expository lectures on Data Assimilation, Chair : M. Pulido.

14:30-15:15 DA: An Outlook (M. Ghil)

15:15-15:45 Coffee Break

15:45-16:30 DA: Methods, Concepts and Challenges (A. Carrassi)

16:30-17:15 DA-based parameter estimation schemes (J. Ruiz)

Poster session and welcome ceremony, Chair : C. Vera.

17:30-20:00 Poster session.

18:00-20:00 Welcome ceremony and reception hosted by the Embassy of France.

TUESDAY

Morning Session: Questions and Answers, Chairs : M. Ghil and F. Zwiers.

09:00-10:30 Breakout (D&A and DA): Formulating questions

10:30-11:00 Coffee Break

11:00-12:00 Plenary: Laying out answers

12:00-14:00 Lunch

Afternoon Session 1: Challenges common to D&A and DA, Chair: P. Naveau.

14:00-14:30 Model error and covariance estimation in DA (A. Carrassi)

14:30-15:00 Covariance estimation and model error in D&A (A. Ribes)

15:00-15:30 Coffee Break

Afternoon Session 2: DA-based inversion, Chair: D. Auroux.

16:00-16:45 Reconstruction of tropospheric emissions (M. Bocquet)

16:45-17:30 Reconstruction of stratospheric fluxes (M. Pulido)

WEDNESDAY

Morning Session: DA-based D&A: Tentative building blocks and illustrations.

Chair: A. Carrassi.

09:00-09:45 Sequential estimation: Kalman and particle filters (P. Naveau)

09:45-10:30 DA-based Detection: Paleoclimate reconstruction (F. Zwiers)

10:30-11:00 Coffee Break

11:00-11:45 DA-based Attribution: Stratospheric cooling (A. Hannart)

11:45-12:30 Less is more: Empirical Model Reduction (D. Kondrashov)

12:30-14:30 Lunch

Afternoon Session: Brainstorming, Chairs: C. Tebaldi and tbc.

14:30-15:30 Breakout: Whys, Whats & Hows of DADA

15:30-16:00 Coffee Break

16:00-17:00 Breakout: Whys, Whats & Hows of DADA (continued)

18:30-21:30 Dips and drinks in Palermo bar 'Espacio DADA' (optional).

THURSDAY

Morning Session: Roadmap discussion, Chair: C. Saulo.

09:00-10:30 Presentations of Brainstorming outcomes

10:30-11:00 Coffee Break

11:00-12:00 Discussion on research agenda and short term action plan

12:00-12:15 Closing address