



AMBASSADE DE FRANCE EN ARGENTINE

EXPLORATORY WORKSHOP DADA

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

BUENOS AIRES, 15-18 OCTOBER 2012



Hosted at the Academia Nacional de Ciencias Exactas, Físicas y Naturales.
Organized by 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 (D&A)
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 (DA)

- 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)

TUESDAY

Morning Session: Questions and Answers

- 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

TUESDAY

12:00-14:00 Lunch

Afternoon Session 1: Challenges common to D&A and DA

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

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

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

18:00-20:00 Welcome ceremony and reception hosted by the Embassy of France, and poster session (this event may still be rescheduled to Monday).

WEDNESDAY

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

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

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

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