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EDUCATION AND TRAINING

- PhD in Atmospheric Physics - University of La Reunion - France (2008)
- Athletic Coach - National Instructor Qualification Level 1 (Brevet d'Etat d'Eduteur Sportif 1er degre), Scuba diving specialty (2007)
- Ms, Physical Methods for Remote Sensing - University Denis Diderot – Paris 7, France (2004)
- Ls, Fundamental Physics - University Denis Diderot – Paris 7, France (2002)

RESEARCH INTERESTS

- Stratospheric Dynamics
- Stratospheric barriers, zonal and meridional transport characteristics, climate change
- Long-Term variability of stratospheric ozone
- Remote sensing using active and passive instruments

PROFESSIONAL EXPERIENCE

- Postdoctoral Researcher at Jet Propulsion Laboratory - NASA (Nasa Postdoctoral Program fellowship, 2010-present)
- Post-doctoral Researcher at Laboratoire de l'Atmosphère et des Cyclones, La Réunion (National Center for Scientific Research, 2008-2009)
- Assistant for Education and Research, Department of Physics, University of La Reunion (2007-2008)
- Voluntary and Professional Scuba Diving Course Director (2003-2010)
- Life Guard (2001-2002)

SELECTED PUBLICATIONS

- Bègue, N., Bencherif, H., Sivakumar, V., **Kirgis, G.**, Mzé, N., and Leclair de Bellevue, J., 2010. Temperature variability and trend estimates at tropopause and UT-LS over a subtropical site: Reunion (20.8° S, 55.5° E), *Atmos . Chem. Phys. Discuss.*, 10, 10113-10143.
- Kirgis, G., 2008. An Evaluation of Isentropic Transport across the Subtropical Stratospheric Dynamical Barrier of the Southern Hemisphere, PhD Thesis, University of La Reunion, 249pp.
- Kirgis, G. et al., 2007. Evaluation of Transport across Dynamical Barriers by Multivariate Analysis, *Reunion Island International Symposium, Reunion Island*.
- D'Ovidio F., Legras B., **Kirgis G.**, Bencherif H., 2007. Lyapunov-based detection of ozone intrusion events over La Réunion, *Reunion Island International Symposium, Reunion Island*.
- Kirgis, G. et al., 2007. Discrimination of Air Masses by Multivariate Analysis Applied to Barrier detection, *3rd SCOUT-O3 Annual Meeting, Heraklion, Crete, Greece*.
- Kirgis, G. et al., 2006. A statistical approach to study isentropic transport events in the lower stratosphere nearby the southern subtropical barrier, *European Geosciences Union General Assembly Vienna, Austria*.