

Pascal MARQUET

Birth date : 30th of April 1960.

French nationality. Married.

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ICPEF. Research scientist at Météo-France.

CNRM-GAME/GMAP/PROC

42 Av G. Coriolis,

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Diplomas

1995 Award: “Prud’homme’s prize” received from the French Meteorological Society in September 1995 for the PhD work.

1994 PhD Thesis (University Paul Sabatier / Toulouse)

Title: Applications of the concept of *Exergy* to atmospheric energetics.
The concepts of dry-air and moist-air *Available Enthalpy*.

Director: Dr. D. Cadet (LMD).

Advisors: Dr. R. Sadourny (LMD) and Prof. R. P. Pearce (Univ. of Reading).

1986 - 1988 Engineering degree from the French School of Meteorology (ENM, Toulouse)

1980 - 1983 First Engineering degree from the French School of Meteorology (ENM, Toulouse)

Research Positions

2014 → now. Research scientist position at Centre National de Recherches Météorologiques (CNRM-GAME CNRS and Météo-France), Toulouse, France.

Area of specialization :

- 1) Code/tuning of physics package of ARPEGE and AROME NWP models.
- 2) Study of moist-air thermodynamics (entropy, enthalpy).
- 3) Applications of Exergy to atmospheric science (available enthalpy).

1995 – 2008 Research scientist in the ARPEGE-Climate team (tuning in 1995-99 of the moist turbulence diagnostic “Mellor-Yamada 2.0” scheme; tuning in 2002-08 of the prognostic “CBR 1.5 scheme” + prognostic bulk Lopez microphysics + Bechtold & Gueremy Shallow conv. schemes ; among others...)

1990 – 1991 Research scientist (writing of the non-linear Normal Mode Initialization in the new building ARPEGE-NWP model)

Teaching

2002-2005 Teaching courses on “physical parameterizations” and “Numerical methods” at the French School of Meteorology (master level).

1991-1993 Teaching a course on “Atmospheric energetics” at the French School of Meteorology (master level).