

1. Professional data/activity				
Full name <b>Nathalie LEFEVRE</b>			e-mail <b>Nathalie.lefevre@ird.fr</b>	
Institution <b>Institut de Recherche pour le Développement (IRD)</b>			Present position <b>Research scientist</b>	
Department <b>LOCEAN</b>			Start date (month/year) <b>06/2004</b>	
Office address <b>Université P. et M. Curie, tour 45-46, 5ème étage, 4 place Jussieu</b>			P.O. box	
City <b>Paris cedex 05</b>	State/Province	Country <b>France</b>	Zip code <b>75252</b>	
Phone number <b>33 1 44 27 38 21</b>	Extension	Fax number <b>33 1 44 27 71 59</b>		
2. Academic background				
Degree <b>Ph-D</b>	Field of knowledge <b>Oceanography, Meteorology and Environment</b>		Start / End date <b>1990 / 1994</b>	
	Institution <b>University P. et M. Curie</b>	City <b>Paris</b>	Country <b>France</b>	
Degree <b>Diplôme d'études approfondies</b>	Field of knowledge <b>Oceanography, Meteorology and Environment</b>		Start / End date <b>1989 / 1990</b>	
	Institution <b>University P. et M. Curie</b>	city <b>Paris</b>	Country <b>France</b>	
Degree <b>Maîtrise</b>	Field of knowledge <b>physics</b>		Start / End date <b>1988 / 1989</b>	
	Institution <b>University P. et M. Curie</b>	city <b>Paris</b>	Country <b>France</b>	
Degree	Field of knowledge		Start / End date <b>/</b>	
	Institution	city	Country	
3. Research interests				
Field of Study <b>Oceanography</b>			CNPq use	
Exchange of CO <sub>2</sub> between the ocean and the atmosphere				
4. Current position				
<b>Managerial and/or administrative activity</b>				
Research and Development	<b>Research scientist at IRD</b>			
Technical service/specialization				
Others				
5. Work experience				
5.1. Institution	Position	Activities	Local	Start - End date

University of East Anglia, UK	Senior Research Assistant	CO <sub>2</sub> research in the North Atlantic		2001-2004
Plymouth Marine Laboratory, UK	Research Assistant	CO <sub>2</sub> research in the Atlantic		1995-2001

#### 6. Scientific, technological and artistic production

	number		Number
1. scientific articles in national scientific journals		6. papers presented in congresses, seminars, conferences, etc.	15
2. scientific articles in international scientific journals	23	7. participation in expositions, presentations, etc.	
3. articles for scientific divulgement	1	8. motion pictures, videos, audiovisual and media production	
4. defended theses	1	9. patents	1
5. advised theses		10. books	

#### 7. Main publications :

Relevant publications related to the project

- Lefèvre, N., Diverrès, D., and Gallois, F. 2010. Origin of CO<sub>2</sub> undersaturation in the tropical Atlantic. *Tellus B*, Accepted.
- Lefèvre, N. (2009). Low CO<sub>2</sub> concentrations in the Gulf of Guinea during the upwelling season in 2006. *Mar. Chem.*, 113, 93-101.
- Lefèvre, N., A. Guillot, L. Beaumont, and T. Danguy (2008). Variability of fCO<sub>2</sub> in the Eastern Tropical Atlantic from a moored buoy, *Journal of Geophysical Research*, 113, C01015, doi:10.1029/2007JC004146.
- Jamet, C., C. Moulin, and N. Lefèvre, Estimation of the oceanic pCO<sub>2</sub> in the North Atlantic from VOS lines in-situ measurements: parameters needed to generate seasonally mean maps, *Annales Geophysicae*, 25, 1-11, 2007.
- Lefèvre, N., A. J. Watson, A. Olsen, A. F. Ríos, F. F. Pérez T. Johannessen (2004). A decrease in the sink for atmospheric CO<sub>2</sub> in the North Atlantic. *Geophysical Research Letters*, 31, 10.1029/2003GL018957.
- Lefèvre, N., A.H. Taylor, F.J. Gilbert and R.J. Geider (2003). Modeling carbon to nitrogen and carbon to chlorophyll *a* ratios in the ocean at low latitudes: Evaluation of the role of physiological plasticity. *Limnol. and Oceanog.*, 48(5), 1796-1807.
- Lefèvre, N. and A.H. Taylor (2002). Estimating pCO<sub>2</sub> from sea surface temperatures in the Atlantic gyres. *Deep-Sea Research*, 49(3), 539-554.
- Lefèvre, N., A.H. Taylor and R.J. Geider (2001). Phytoplankton physiology affects ocean surface temperatures. *Geophys. Res. Letters*, 28, 1251-1254.
- Lefèvre N. and G. Moore (2000). Distribution of the CO<sub>2</sub> partial pressure along an Atlantic meridional transect. *Progress in Oceanography*, 45, 401-413.
- Lefèvre N., A.J. Watson, D.J. Cooper, R.F. Weiss, T. Takahashi and S.C. Sutherland (1999). Assessing the seasonality of the oceanic sink for CO<sub>2</sub> in the northern hemisphere. *Global Biogeochemical cycles*, 13, 273-286.
- Lefèvre N., G. Moore, J. Aiken, A.J. Watson, D.J. Cooper and R. Ling (1998). Variability of pCO<sub>2</sub> in the tropical Atlantic in 1995. *Journal of Geophysical Research*, 103, 5623-5634.
- Lefèvre N. (1997) Objective mapping of the seasonal variability of ΔPCO<sub>2</sub> in the North Atlantic ocean. *The Global Atmosphere and Ocean System*, 5, 247-271.
- Parard, G., Lefèvre, N., and Boutin, J. 2009. Sea water fugacity of CO<sub>2</sub> at the PIRATA mooring at 6°S, 10°W. *Tellus B*, Accepted.

#### 8. Languages

Indicate your language proficiency: P – poor G - good E – excellent

Language	speaking	reading	writing	Language	speaking	reading	Writing
French	E	E	E				
English	E	E	E				