

Curriculum vitae

Name : Bernd Dieter Becker
 Date of Birth : 20. 10. 1962 in Stedum, Landkreis Peine.
 marital status : married to Kirsten Wilmer
 children : Katharina 14.01.1994
 : Johanna Frieda 16.01.1997

School education	Place	Main subjects:	Graduation
08. '68-07. '71	Primary School in Stedum		
07. '71-07. '72	Primary School in Hohenhameln		
07. '72-05. '82	Gymnasium in Gross Ilsede	Mathematics, Physics.	Abitur
Compulsory	Military	Service	
10. '82-12. '83	3./PZGRBTL 22 in Braunschweig	Milan gun-layer	Gefreiter
Study			
04. '84-05. '91	University of Hamburg	Study of Meteorology.	Diploma, Note "gut".
04. '84-07. '86	MI	Prestudy.	Pre-exams, Note 2.5.
07. '86-12. '89	MI	Main study.	Exams , Note 2.0.
05. '90-05. '91	Prof. Grassl Prof. Roeckner	Diploma thesis towards "Changes to the Indian Summer monsoon due to the Greenhouse effect in a numeric climate Simulation".	Independent scientific work, Note 2.7

Professional Career	Practical Occupation	Experience
07. '91-12. '91 MPI	Scientist in the EPOCH-Project "Global Changes over the last 30000 Years".	Sensitivity studies on the freshwater fluxes in the north Atlantic with a global ocean model.
03. '92-09. '95 ECMWF	Scientist for scientific and programming support for an observing system simulation experiment, and for the development of the associated simulation capability.	Team effort, involving ESA and almost all groups of ECMWF, to implement the observation handling mechanism for future satellite systems in the Integrated Forecasting System.
10. '95-12. '95 ECMWF	Scientist for scientific and programming support for the ocean data assimilation system in a seasonal forecast environment.	designing and implementing the BUFR data output and storing module in the assimilation system.
02. '96-04. '97 ECMWF	Scientist for scientific and programming support for development of a bulk-data distribution system on CD-ROMs.	designing and implementing platform independent multi-media software. Produced the PROVOST and ERA CD-ROMs. GrADS and GRIB.
09. '97-02. 2000 CGAM	Scientist in the Studies of the Hydrology, Influence and Variability of the Asian Summer Monsoon (SHIVA), and in the Interannual and decadal climate Variability: Scale Interaction Experiments (SINTEX) Projects	Investigation of predictability on seasonal time scale of the Asian Summer Monsoon from PROVOST ensemble hind-cast simulations and from ensemble sensitivity experiments. Investigation of teleconnections from a 150 year coupled HadCM3 simulation. Web master.
03. 2000- Met Office	Scientist in the Predictability and Seasonal Forecasting Group.	Technical Manager of The Monthly Outlook. Running timely and efficiently the post processing of the monthly forecast and supervision of delivery. Development of new user friendly forecast products.

MI : Meteorological Institute of the University of Hamburg
 MPI : Max Planck Institute for Meteorology
 ESA : European Space Agency
 ECMWF : European Centre for Medium-Range Weather Forecast
 CGAM : UK Universities' Centre for Global Atmospheric Modelling

Hardware knowledge:

WINDOWS, Linux	on IBM-PC	PROVOST/ERA multimedia CD-ROMS, GRIB decoding
VMS	on VAX	Data archiving
NOS, NOS-VE	on Cyber	Migration of a random-access file.
UNICOS	on Cray	climate prediction, satellite simulations.
UNIX	on diverse Workstations.	handling large data sets, post-processing, plotting.

Software knowledge:

Fortran	Experience and practice since 15 years	
C	applied at shell-programming level	
C++	visited introductory course	(ECMWF)
Empress	visited introductory course	(ECMWF)
Continuus	Developer and Build manager Course	(Met Office)
GrADS	Versatile data handling and plotting tool	

Practical occupation while study

when, at, place.	occupation	experience
12. '86-04. '88 Dr. R. Sausen, MI	Programmer	Employed for the analysis of weather charts and smaller programming tasks in Fortran, text processing with Latex, graphics with the NCAR (National Center of Atmospheric Research, Boulder) plotting system.
07. '87 Prof. Fischer-Apelt	Chauffeur for the President of the University.	
04. '88-06. '88 FSS Polarstern	Expedition Arktis'88, Weather observation in shift duty, erection and maintenance of a meteorological observation station on an ice flow.	Online analysis of first results.
09. '88 Fehmarn	Tutor. attending the field trip.	Responsible for the motivation of 15 participants and the scientific success of this practical course.
11. '88-08. '89 Dr. G. Kruspe, MPI Group Aerology	programmer for the conversion of a random-access database and connected subroutines to be run on a new operating system (from NOS via NOV/VE to UNICOS), for the analysis of a front chosen from Arktis'88 field observation data and for service and support in plotting (NCAR).	Assistance on writing the cruise report Valdivia '88, chart the ice edge while Arktis'88 (Pg. 86 f).
05. '89-06. '89 Nordholz	participation in the research project Frontex'89.	Observe and analyse cold fronts from aeroplanes.
10. '89-06. '91 Dr. B. Santer, MPI Climate Group	Programmer to conduct model comparisons (2*CO ₂ /1*CO ₂ -results), to assist in CO ₂ impact studies.	Attendance of guests to the MPI in solving their computer related problems.

List of publications:

Bernd Dieter Becker, Diploma Thesis, 1991:

Submitted to the Meteorological Institute at the University of Hamburg, Changes to the Indian Summer monsoon due to the Greenhouse effect in a numeric climate Simulation

Ad Stoffelen, Bernd Dieter Becker, John Eyre, Hervé Roquet, 1994:

Theoretical Studies of the Impact of Doppler Wind LIDAR Data, ESA contract report, contract number: AO/1-2345/90/HGE-1

Hervé Roquet, Bernd Dieter Becker, Roger Saunders, 1995:

Extension of the OSSE data base to scatterometer and ATOVS data, ESA contract report, contract number: 10921/94/NL/CN

Bernd Dieter Becker, Hervé Roquet, 1995:

The ECMWF synthetic observation production suite,
Part II of ESA contract report, contract number: 10921/94/NL/CN

Peter Janssen, Bernd Dieter Becker, Jean-Jacques Morcrette, 1995:

Note on the sea-state dependence of the ocean surface albedo, ECMWF Technical Memorandum No. 228

Bernd Dieter Becker, Hervé Roquet, Ad Stoffelen, 1996:

A simulated observation data base including ATOVS, ASCAT and DWL data, Bulletin of the American Meteorological Society. Vol. 77, No. 10, October 1996

Bernd Dieter Becker, ECMWF Seasonal Ensemble Simulations on CD-Rom.

WMO Bulletin. Vol. 47, No. 3, July 1998, 276 – 280.

Bernd Dieter Becker, 1998:

Preliminary Results on Monsoon Variability from Ensemble Simulations of a global Atmosphere Model, Forced with Observed and Climatological SSTs, Proceedings of the International Conference on the Variability and Predictability of the Asian Monsoon (ICAM), September 22 – 26 1998, Xian, pg. 332

Bernd Dieter Becker, 1998:

SHIVA: Studies of the Hydrology, Influence and Variability of the Asian Summer Monsoon: A coordinated Program of Climate Model Analysis and Experimentation, Proceedings of the International Conference on the Variability and Predictability of the Asian Monsoon (ICAM), September 22 – 26 1998, Xian, pg. 376

Bernd Dieter Becker, Julia Slingo, 1999:

Influence of the mid-latitudes on the Predictability of the Indian Summer Monsoon, Proceedings of 4th International Conference on Modelling of Global Climate Change and Variability, 13 - 17 September 1999, Hamburg, pg. 108.

European Commission Community research studies: SHIVA,

Studies of the Hydrology, Influence and Variability of the Asian Summer Monsoon,
EUR 19084 EN, ISBN 92-828-7758-2, 1999

Bernd Dieter Becker, Julia Slingo, Laura Ferranti, Franco Molteni, 2000:

Seasonal predictability of the Indian Summer Monsoon: What role do land surface conditions play?
MAUSAM, Vol. 52, 1, 47 – 62.

Bernd Dieter Becker, 2001:

Developments in monthly and seasonal forecasting at the Met Office.

Proceedings from the 26th Annual Climate Diagnostics and Prediction Workshop, 22 - 27 October 2001, SCRIPPS, in press.

Commercial	Occupation	
Summer holidays '85 Deutsche Doka, Hamburg	Cleaning of Cladding	Heavy-work
02./03. '86 VW Werk Salzgitter	Engine assembly	Piece work in Shifts.
Summer '86 Detlev Louis, Hamburg	Motor-bike retail, dispatch.	

Other

Languages : fluent English

5 Years of French lessons at school,
Spanish and Italian learned while travelling.

Driving license for car and motor bike since November 1980

Travel Experience Europe, Pakistan, Thailand, China, India, USA.

healthy

References: Dr. Richard Graham, Met Office, Telephone: 0044 (0) 1344 / 856361
 Dr. Julia Slingo, CGAM, Telephone: 0044 (0) 118 / 9318424
 Dr. Tim Palmer, ECMWF, Telephone: 0044 (0) 118 / 9499 600

Reading, the 4th of November 2001

BerndDieterBecker