

CURRICULUM VITAE

Company	GIBB
Name	Dr Norbert Theodor Wilhelm KLAGES
Nationality	South African
Date of birth	03.07.1951
Profession	Ecologist
Position	Senior Associate
Specialisation	Environmental consulting
Start date with GIBB	2006 – Permanent full-time staff member

Key experience

A natural scientist with more than 30 years of experience, Dr Norbert Klages specialises in environmental consulting and contract research.

His key experience includes:

- **Biomonitoring and biodiversity assessments**
 - **Environmental policy and environmental management plans**
 - **Environmental impact assessments and strategic environmental assessments**
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Qualifications

Bachelor of Science: Hannover University, Germany, 1976
Master of Science (cum laude): Kiel University, Germany, 1979
Doctor of Natural Sciences (cum laude): Kiel University, Germany, 1983
Registered Professional Natural Scientist (Ecological Science): South African Council for Natural Scientific Professions, Registration No: PriSciNat 400412/04.
Certified Environmental Assessment Practitioner (EAPSA)
Trustee of the SA Marine Animals Rehabilitation and Education Centre

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Career summary

- June 2006 to date **GIBB** – Senior Environmental Scientist, Associate
- Ecological specialist reports, especially in the coastal zone; environmental basic assessments, environmental impact assessments, strategic environmental assessments; state of the environment reports; environmental opportunity and constraints analyses, urban open space planning; flood risk assessments; Geographical Information Systems (GIS) applications
- Jan 2002 to May 2006 **Institute for Environmental & Coastal Management, University Port Elizabeth** – Director
- Coastal Environmental Consulting
- Jan 1991 to Jan 2002 **Port Elizabeth Museum at Bayworld** – Senior Specialist Scientist and Head of Research
- Marine ornithology and marine mammalogy research projects
- Oct 1983 to Dec 1990 **Port Elizabeth Museum, South Africa** – Contract Scientist (Antarctic Research Officer)
- Trophic relationships and feeding ecology of marine top predators in the Southern Ocean and in South African waters
- April 1981 to Dec 1982 **Institut für Meereskunde Kiel, Germany** – Research Scientist
- Investigations of the biology of Nordic krill
- Feb 1981 to April 1981 **Alfred-Wegener-Institut für Polarforschung, Bremerhaven, Germany** - Research Scientist
- Mikronekton standing stock in the Scotia, Sea, Southern Atlantic Ocean also responsible for expedition logistics
- Jan 1980 to Jan 1981 **Alfred-Wegener-Institut für Polarforschung, Bremerhaven, Germany** - Research Scientist
- Collaborator in the project “Living Resources of the Antarctic Ocean”
- Sept 1979 to Dec 1979 **Bundesforschungsanstalt für Fischerei, Hamburg, Germany** - Research Scientist
- Assessment of the fish resources around Kerguelen Islands, Southern Indian Ocean
- Oct 1976 to Aug 1979 **Institut für Meereskunde Kiel, Germany** – Research Assistant
- Mainly plankton research

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Project experience

Dr Klages has engaged professionally with many of the impacts that human developments have on the natural environment. In concert with his professional training and academic activities his work has had a strong leaning towards coastal and aquatic science assignments. As such he has been involved in a broad variety of studies and projects and he has authored more than 120 environmental consulting reports. Key projects of the last 10 years include:

Biodiversity assessments and biomonitoring

- State of the Environment Report. Prepared for Nelson Mandela Bay Municipality, 2009-2010
- State of the Environment Report. Prepared for Hessequa Local Municipality, 2008
- State of Environment Report. Prepared for Eden District Municipality, 2007
- Marine biomonitoring during Port of Ngqura construction. Prepared for National Ports Authority, 2002-2006
- Seabird Monitoring Guidelines for Algoa Bay. Prepared for South African National Parks (SANParks), 2006
- Water quality and biological monitoring of the Port of Port Elizabeth and Port of Mossel Bay. Prepared for National Ports Authority, 2002–2005
- Biomonitoring plan for the aquatic environmental impacts associated with the construction of Berth 306 Richards Bay. Prepared for National Ports Authority, 2004
- Baseline survey of marine invasive alien species off the Port of Ngqura. Prepared for National Ports Authority, 2003
- Monitoring of seabird populations at the Prince Edward Islands. Prepared for Department of Environmental Affairs and Tourism, 2002-2004

Environmental policy and environmental management plans

- Mogale City Open Space Framework. Biodiversity conservation planning report prepared for Mogale City Local Municipality, 2011
- Water Demand Management case studies for eight countries in the SADC region. Specialist report prepared for the Development Bank of Southern Africa, 2011
- Management of the Noordhoek dune field and its effects on the Cape Recife Waste Water Treatment Works. Prepared for Nelson Mandela Bay Municipality, 2010
- Open Space System Master Plan. Prepared for Greater Port Harcourt Implementing Authority, Rivers State, Nigeria, 2009-2010
- Green Goal Plan for the 2010 Football World Cup: Host City Nelson Mandela Bay. Prepared for Nelson Mandela Bay Municipality, 2009
- Environmental Management Programme for the upgrade of Gelvandale Athletics and Soccer Stadium. Prepared for Nelson Mandela Bay Municipality, 2009
- Environmental Management Plan for the repair of the failed Moffet Dam. Prepared for Nelson Mandela Bay Municipality, 2008
- Environmental Management Plan for the construction of stormwater infrastructure in Motherwell. Prepared for Nelson Mandela Bay Municipality, 2008
- Plan for the establishment of the Cape Recife Conservancy. Prepared for the Friends of Cape Recife, 2008
- Implementation of the Integrated Beachfront Development Plan of the Nelson Mandela Bay Municipality. Prepared for Afri-Coast Consulting Engineers, 2006-2007
- Establishment of the Port Elizabeth Humpback Dolphin sanctuary and the demarcation of restricted areas for aquatic motor sport craft. Prepared for Nelson Mandela Bay Municipality, 2006
- Tourism options for the Alexandria dunefield and beach: limiting impacts on breeding and resident avifauna. Prepared for SANParks, 2006

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- Threats to coastal seabirds of the Greater Addo Elephant National Park and their mitigation. Prepared for SANParks, 2005-2006
- Mitigation of impacts during and rehabilitation after gravel mining in the bed of the Swartkops River at Perseverance. Prepared for Strydom, Basson & Tait, 2005
- Lusikisiki Natural Resource Reclamation: Community perceptions study and botanical evaluation. Prepared for Key Point Rural Development, 2003
- Coastal Management Plan. Prepared for Nelson Mandela Bay Municipality, 2003
- Conservation plan for the proposed Marine Protected Area for the Greater Addo Elephant National Park. Prepared for CSIR, 2001

Environmental impact assessments and strategic environmental assessments

- Environmental Impact Assessment for the Motherwell NU31 Low-cost Housing Development. Prepared for Nelson Mandela Metropolitan Municipality, 2011
- Environmental Impact Assessment for the Kouga wind farm. Prepared for Red Cap Investments, 2009-2010
- Strategic Environmental Assessment for North End. Prepared for Nelson Mandela Metropolitan Municipality, 2008
- Environmental Impact Assessment for the Bethelsdorp housing development. Prepared for Mzingisi Development Trust, 2008-2009
- Flood risk assessment for the Umzimkhulu River. Prepared for Mzimkhulu Local Municipality, 2008
- Mapping and determination of flood lines of sections of the Niger Delta at Port Harcourt, Nigeria. Prepared for the Governor of Rivers State, Nigeria, 2008
- Ecological assessment of a common seawater intake and a marine outfall for the Coega Industrial Development Zone. Prepared for Coega Development Corporation, 2007
- Terrestrial and marine ecological impact assessment for the Straights Chemicals chlor-alkali plant at Coega IDZ. Prepared for SRK Consulting, 2007
- Stormwater Master Plan for the Coega IDZ. Prepared for Coega Development Corporation, 2007
- Augmentation of older dams bulkwater pipelines in the Elands River valley. Prepared for Nelson Mandela Metropolitan Municipality, 2006
- Madiba Bay Leisure Park EIA. Marine and intertidal ecological assessment. Prepared for Coastal and Environmental Services, 2005
- Proposed St Francis Golf Estate Ecological Impact Assessment. Specialist report: Sensitivity of flora and fauna to disturbance. Prepared for SRK Consulting, 2003
- Maitland River Mouth Strategic Environmental Assessment. Prepared for Nelson Mandela Metropolitan Municipality, 2003
- Beach erosion remediation at St Francis Bay. Prepared for SRK Consulting, 2002

Field experience and participation in scientific expeditions

Nine times to Antarctica and islands of the Southern Ocean
Three times to the Arctic and North Atlantic
More than 150 biological field trips within Southern Africa, to all major oceans and to most continents

Publications

Author or co-author of 82 publications in the peer-reviewed primary scientific literature
Author or editor of six books and numerous other publications in the popular literature

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Language capability

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
German	Excellent	Excellent	Excellent
Afrikaans	Some ability	Some ability	Some ability

Signature

Date
