

16. Veröffentlichungen, Patente | *Publications, patents*



16.1 Veröffentlichungen des Instituts

Publications of the Institute

Berichte zur Polar- und Meeresforschung *Reports on Polar and Marine Research*

- Heft 519/2006** – „The influence of an improved soil scheme on the Arctic climate in a Regional Climate Model (RCM)“, by Subodh Kumar Saha.
- Heft 520/2006** – „Global implications of Arctic climate processes and feedbacks: Report of the Arctic Climate Workshop, Alfred Wegener Institute for Polar and Marine Research, Potsdam (Germany), 5-7 September 2005“, ed. by Annette Rinke and Klaus Dethloff.
- Heft 521/2006** – „Südöstlicher Atlantik und südwestlicher Indik: Rekonstruktion der sedimentären und tektonischen Entwicklung seit der Kreide: AISTEK-II: Mosambik Rücken und Mosambik Becken; Report of the RV ‚Sonne‘ cruise SO-183, Project AISTEK-II, 20 May to 7 July 2005“, ed. by Wilfried Jokat.
- Heft 522/2006** – „Benthische Foraminiferenvergesellschaftungen als Anzeiger für spätquartäre Positionsveränderungen der Fronten des Antarktischen Zirkumpolarstroms im Südatlantik“, von Miriam Rudolph.
- Heft 523/2006** – „Late Weichselian to Holocene sedimentation in the inner Kara Sea: Qualification and quantification of processes“, by Klaus Hauke Dittmers.
- Heft 524/2006** – „Nichtlineare Dynamik atmosphärischer Zirkulationsregime in einem idealisierten Modell“, von Mario Sempf.
- Heft 525/2006** – „Processing of shipborne magnetometer data and revision of the timing and geometry of the Mesozoic break-up of Gondwana“, by Matthias König.
- Heft 526/2006** – „Effects of ultraviolet radiation on early life stages of cold temperate and Arctic macroalgae: Implications for recruitment and vertical depth distribution“, by Michael Y. Roleda.
- Heft 527/2006** – „Kleinskalige Heterogenität in der arktischen Tiefsee: Einfluss kleiner Kaltwasser-Schwämme auf die Diversität benthischer Nematoden-Gemeinschaften“, von Christiane Hasemann.
- Heft 528/2006** – „Makrozoobenthos-Gemeinschaften arktischer Weichböden: Struktur und Bedeutung als Nahrungsgrundlage demersaler Fische“, von Marko Herrmann.
- Heft 529/2006** – „Strategies of cellular ageing in polar and temperate marine invertebrates“, by Eva Philipp.
- Heft 530/2006** – „Schiffstagebuch der Steam-Bark GROENLAND geführt auf einer Fangreise in die Antarktis im Jahre 1873/1874 unter der Leitung von Capitain Ed. Dallmann“, hrsg. und kommentiert von Reinhard A. Krause und Ursula Rack.
- Heft 531/2006** – „Aggregations of Arctic deep-sea scavenging amphipods at large food falls“, by Katrin Premke.
- Heft 532/2006** – „Ecological preferences of benthic foraminifera in the Eastern South Atlantic: Distribution patterns, stable carbon isotopic composition, and paleoceanographic implications“, by Laetitia Licari.
- Heft 533/2006** – „The expedition ANTARKTIS-XXII/3 of the research vessel ‚Polarstern‘ in 2005“, ed. by Eberhard Fahrback.
- Heft 534/2006** – „Sensitivitätsstudien und Analyse von Atmosphäre-Meereis-Wechselwirkungen mit dem regionalen Atmosphärenmodell HIRHAM4 auf Basis eines neu entwickelten beobachtungsgestützten unteren Modellantriebs während ausgewählter Sommer über der Arktis/Laptewsee“, von Klaus Görden.
- Heft 535/2006** – „Beobachtung und Modellierung der Schneeschmelze und Aufeisbildung auf arktischem und antarktischem Meereis“, von Marcel Nicolaus.
- Heft 536** – „Tunicaten (Ascidiacea) der Nordsee: Chemische Ökologie und pharmakologisches Potential“, von Jana Stefanie Barenbrock.
- Heft 537/2006** – „The expeditions ANTARKTIS-XXII/4 and 5 of the research vessel ‚Polarstern‘ in 2005“, ed. by Hans-Werner-Schenke und Walter Zenk.
- Heft 538/2006** – „Radiation measurements and synoptic observations at Ny-Ålesund, Spitzbergen“, by Heike Kupfer, Andreas Herber, Gert König-Langlo.
- Heft 539/2006** – „The expedition LENA 2004 in Siberia and the expedition LIVINGSTONE 2005 in Antarctica“, ed. by Dirk Wagner
- Heft 540/2006** – „Seafloor analysis based on multibeam bathymetry and backscatter data“, by Andreas Beyer.
- Heft 541/2006** – „The exchange of energy, water and carbon dioxide between wet Arctic tundra and the atmosphere at the Lena River, Northern Siberia“, by Lars Kutzbach.
- Heft 542/2007** – „Identification of seafloor provinces – specific applications at the deep-sea Håkon Mosby Mud Volcano and the North Sea“, by Kerstin Jerosch.
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- Heft 544/2007** – „The expeditions ARKTIS-XX/1 and XX/2 of the research vessel ‚Polarstern‘ in 2004“, ed. by Gereon Budéus and Peter Lemke.
- Heft 545/2007** – „Lakustrine Sedimente als Archive des spätquartären Umweltwandels in der Amery-Oase, Ostantarktis“, von Nadja Hultsch.
- Heft 546/2007** – „Detaillierte Biomarkeruntersuchungen an Sedimentkernen von ODP-Leg 177“, von Petra Weller.
- Heft 547/2007** – „Development of a novel balloon-borne optical sonde for the measurement of ozone and other stratospheric trace gases“, by Mareile Wolff.
- Heft 548/2007** – Holocene and Last Glacial Maximum (paleo-)productivity off Morocco: Evidence from benthic foraminifera and stable carbon isotopes“, by Astrid Eberwein.
- Heft 549/2007** – 11th International Conference on the Physics and Chemistry of Ice (PCI-2006), Bremerhaven, Germany, 23-28 July 2006: Abstracts“, ed. by Frank Wilhelms and Werner F. Kuhs.
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- Heft 552/2007** – Spatial distribution of snow accumulation and snowpack properties in Dronning Maud Land, Antarctica: Observational techniques and methods for surface mass-balance assessment of polar ice sheets“, by Gerit Rotschky.
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- Heft 555/2007** – „Bestimmung verschiedener Eisklassen durch statistische Analyse der Rauigkeit von Meereis“, von Carola von Saldern.
- Heft 556/2007** – The expedition ANTARKTIS-XXIII/1 of the research vessel ‚Polarstern‘ in 2005“, ed. by Michiel Rutgers van der Loeff.
- Heft 557/2007** – „The expedition ANTARKTIS-XXIII/4 of the research vessel ‚Polarstern‘ in 2006“, ed. by Karsten Gohl.

- Heft 558/2007** – „The expedition ANTARKTIS-XXIII/3 of the research vessel ‚Polarstern‘ in 2006“, ed. by Christine Provost
- Heft 559/2007** – „Determination of sea ice surface elevation with laser and radar altimetry and comparison with ice thickness data sets in the Arctic and Antarctic“, by Sibylle Göbell.
- Heft 560/2007** – „Steps of Foundation of Institutionalized Antarctic Research: Proceedings of the 1st SCAR Workshop on the History of Antarctic Research, Bavarian Academy of Sciences and Humanities, Munich (Germany), 2-3 June, 2005“, ed. by Cornelia Lüdecke.
- Heft 561/2007** – Anwendung des stratifizierten Krigings auf ERS-1 and ERS-2 Radaraltimeterdaten zur Untersuchung von Eishöhenveränderungen im Lambert Gletscher/ Amery Eisschelf-System, Ostantarktis“, von Ralf Stosius.
- Heft 562/2007** – „Tolerance limits and survival potential of methanogenic archaea from Siberian permafrost under extreme living conditions“, by Daria Morozova.
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- Heft 567/2007** – „Effects of UV radiation on Antarctic benthic algae – with emphasis on early successional stages and communities“, by Katharina Zacher.

- Heft 568/2007** – „The Expedition ANTARKTIS-XXIII/2 of the research vessel ‚Polarstern‘ in 2005/2006“, ed. by Volker Strass.

Presse- und Öffentlichkeitsarbeit:

Das AWI in den Jahren 2004 und 2005 Report 2004/2005

2006: 358 pp.
Redaktion C. Pichler, M. Pauls (verantwortlich)

Beispiele aus unserer Forschung 2006 Research Highlights 2006

2006: 70 pp.
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16.2 Veröffentlichungen der Mitarbeiter *Publications by members of staff*

2006, begutachtet

- Abelmann, A., Gersonde, R., Cortese, G., Kuhn, G., Smetacek, V.** (2006). Extensive phytoplankton blooms in the Atlantic Sector of the glacial Southern Ocean, *Paleoceanography*, 21, PA1013.
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