

POSTER SESSIONS

FLOATING ICE

- M. O. Jeffries, A. Danielson, K. Morris and R. Krouse: Depositional environment of the snowcover on West Antarctic pack ice floes
- C. S. Roesler, S. G. Warren, V. I. Morgan, R. E. Brandt, I. D. Goodwin and I. Allison: Green icebergs formed by freezing of organic-rich seawater to the base of Antarctic ice shelves
- S. Harangozo: Interannual temperature-sea ice-circulation relationships on the west coast of the Antarctic Peninsula
- U. Nixdorf and H. Miller: Seismological and geodetic investigations in a tension fault area of the Ekström Ice Shelf, Antarctica
- I. M. Belkin and S.S. Jacobs: South Pacific iceberg distributions
- D. L. Morse and E. D. Waddington: Recent survey of McMurdo Ice Shelf brine infiltration zone
- A. J. Gow and J. W. Govoni: An 80-year record of retreat of the Koettlitz Ice Tongue, McMurdo Sound, Antarctica
- R. A. Bindschadler, M. A. Fahnestock, T. A. Scambos and P. Skvarca: Surface velocity field of northern Larsen Ice Shelf, Antarctica
- N. Blindow: The central part of the Filchner-Ronne Ice Shelf, Antarctica: internal structures revealed by 40 MHz monopulse RES
- M. Jonas, K. Grosfeld and F. Thyssen: Numerical flow simulation at local parts of Filchner-Ronne Ice Shelf, Antarctica
- M. Frezzotti and M. C. G. Mabin: Twentieth century behaviour of the Drygalski Ice Tongue, Ross Sea, Antarctica
- A. Jenkins, K. W. Nicholls, J. C. Moore and E. W. Wolff: A possible mechanism for the desalination of marine ice beneath ice shelves
- S. Uratsuka, F. Nishio, S. Fujita and S. Mae: Changing ice properties near ice shelf derived from radio echo sounding data
- S. P. O'Farrell: Performance of a dynamic sea ice model in a coupled ocean-atmosphere climate model.

GLACIAL GEOLOGY

- M. L. Prentice, H. W. Borns, Jr., J. Kleman, J. Orifice, and A. P. Stroeven: Evidence from Shapeless Mountain, the Olympus Range and the Balham-McKelvey-Bull corridor concerning Sirius, Peleus and alpine glacial episodes
- A. P. Stroeven, M. L. Prentice and H. W. Borns, Jr.: Mt. Fleming Sirius till: implications for the Neogene glacial history of Antarctica
- S. Anandakrishnan, R. B. Alley, S. T. Rooney, D. D. Blankenship and C. R. Bentley: Recent rifting beneath the West Antarctic ice sheet
- V. M. Haynes: Alpine valley heads in the Antarctic Peninsula and their significance for paleoglaciological and paleoclimatic investigations
- F. van der Wateren, A. L. L. M. Verbers, H. C. Höfle, C. H. Smith and B. P. Luyendik: Glaciation and deglaciation of the uplifted margins of the Cenozoic West Antarctic rift system, Ross Sea, Antarctica
- A. L. L. M. Verbers and V. Damm: Model for the Late Cenozoic glacial history of the area between the David and Mawson Glaciers, Victoria Land, Antarctica
- G. W. Paltridge: Polar ice caps and continental drift

ICE CORES

- K. Goto-Azuma and N. Azuma: Chemical characteristics of snow and ice around Asuka Station, East Queen Maud Land, Antarctica
- E. Isaksson: First glaciological and ice chemistry results from a future deep drilling site in Dronning Maud Land, Antarctica
- V. Ya. Lipenkov, T. Uchida, N. Barkov, P. Duval and T. Hondoh: Air bubbles and air-hydrate crystals in the Vostok ice cores
- N. Azuma, K. Matuda, H. Hara, H. Yamaguti, K. Goto-Azuma and M. Nakawo: Photometric analysis of a 100 m ice core from Asuka Camp, East Antarctica
- E. W. Wolff and E. D. Suttie: A profile of heavy metal concentrations in Antarctic firn through the last 70 years
- H. Shoji, K. Osada and C. C. Langway, Jr: Physical property studies of the Byrd surface camp, Antarctic ice core
- E. D. Waddington and D. L. Morse: Spatial variations of local climate at Taylor Dome: Implications for paleoclimate from ice cores

Programme of Sessions

- D. L. Morse and E. D. Waddington: Radio-echo sounding survey of Taylor Dome
K. Osada: Seasonal variations of major ionic concentration levels in snow drift obtained from east Queen Maud Land, East Antarctica
A. J. Gow: Post-drilling recrystallization of the Byrd Station deep ice cores and its relevance to current and future deep core drilling on polar ice sheets
K. Satow and O. Watanabe: Distribution of ^{18}O of surface snow layers and some vertical profiles of ^{18}O in firn cores in Enderby Land east Queen Maud Land, Antarctica
D. Wagenbach, W. Graf, A. Minikin, U. Trefzer, J. Kipfahl and H. Oerter: Reconnaissance of chemical and isotopic firn properties on top of Berkner Island, Antarctica
Y. Fujii, O. Watanabe, K. Kamiyana, H. Motoyama, H. Shoji, K. Satoh, K. Osada, F. Nishio, M. Nakawo and K. Azuma: Ionic deposits in ice cores and snow pits from coast to summit dome of east Queen Maud Land, Antarctica
E. C. Pasteur and R. Mulvaney: MSA measurements in snow samples and ice cores from the Weddell Sea area
R. Mulvaney and E. W. Wolff: Spatial distributions of major ions in recent Antarctic snow
P. Cais, J. Jouzel, J.-R. Petit, V. Ya. Lipenkov and J. W. C. White: Holocene temperature variations inferred from Antarctic ice cores
G. Piccardi, E. Barbolani, R. Udisti and V. Maggi: H_2O_2 concentration and density profiles in two shallow firn core (Terra Nova Bay, northern Victoria Land, Antarctica)
V. Maggi, B. Stenni, F. Serra, A. Longinelli and M. Frezzotti: Snow accumulation in northern Victoria Land: preliminary data from shallow cores
G. Piccardi, E. Barbolani and R. Udisti: Vertical distribution of principal and trace components in firn at Terra Nova Bay (Antarctica)
J. M. Barnola, P. Martinerie, J. Schwander, V. Lipenkov, D. Etheridge and D. Raynaud: The firn-ice transition: comparison of closed porosity and total gas content from 3 different ice cores
H. Craig and N. Thonnard: Recent studies of Antarctic ice
C. Barbante, G. Capodaglio and G. Scarponi: Lead content in recent snow of Victoria Land (East Antarctica)

ICE PROPERTIES

- T. Kameda, H. Shoji, K. Kawada, O. Watanabe and H. B. Clausen: An empirical relation between overburden pressure and firn density
T. Kameda and R. Naruse: Volumes and configurations of air bubbles in the firn/ice transition layer
T. Uchida, T. Hondoh, S. Mae, P. Duval, and V. Ya. Lipenkov: Effects of temperature and pressure on the transformation rate from air bubbles to air-hydrate crystals in ice sheets
S. Shabtaie and C. R. Bentley: Electrical resistivity measurements on Ice Stream B
C. Liu, C. R. Bentley and N. E. Lord: c axes from radar depolarization experiments at UpB in 1991–92, Antarctica
C. J. van der Veen and I. M. Whillans: Development of fabric in ice

ICE STREAMS, DYNAMICS AND MODELLING

- R. Lestringant: A 3-D finite element study of the entrance of a glacier into an ice-shelf
R. Lestringant: The no-slip / free-slip steady transition problem: a finite element study
A. N. Novick, C. R. Bentley and N. Lord: Ice thickness, bed topography and basal reflectance coefficients from radar sounding, Upstream B, West Antarctica
T. S. Clarke and C. R. Bentley: The paleo-stress field of Ice Stream B from buried crevasses using high-resolution ground radar
R. Dietrich, D. Fritzsche and W. D. Hermichen: A sketch on ice sheet dynamics near the Schirmacher Oasis, Dronning Maud Land, based on a multidisciplinary data fund
C. L. Hulbe and I. M. Whillans: Strain rate evaluation on Ice Stream B, Antarctica, using differential GPS positioning
R. Dietrich, W. Korth, W. Adler and G. Noack: Geodetic glaciological investigations near the Schirmacher Oasis, Dronning Maud Land
J. Calvet, J. M. Casas, R. Pallas, F. Sabat, P. Santanach and J. M. Vilaplana: Fold formation in ice-cap lobes: example of the Hurd Glacier, Livingstone Island (Antarctica)
T. A. Scambos, K. A. Echelmeyer, M. A. Fahnestock and R. A. Bindschadler: The development of enhanced flow at the margins of ice streams
R. A. Bindschadler, M. A. Fahnestock, T. A. Scambos and D. D. Blankenship: The identification of “sticky spots” on Ice Streams D and E, West Antarctica
M. J. Hambrey and J. A. Dowdeswell: Stable flow of the Lambert Glacier–Amery Ice Shelf system, Antarctica: structural evidence from Landsat imagery
H. Decleir and F. Pattyn: Modelling the glacier behaviour in an ablation island of the East Antarctic ice sheet
R. E. Bell and D. D. Blankenship: Focusing on geothermal flux by sedimentary basins beneath the ice streams of the interior Ross Embayment

MASS BALANCE

- G. Delisle: Blue ice fields and global change in East Antarctica
 U. C. Herzfeld, C. S. Lingle and L. Lee: Recent changes in the position of the grounding line of Lambert Glacier, East Antarctica, from kriging of satellite radar altimeter data
 P. Holmlund and E. Isaksson: Establishing spatial distribution of snow accumulation using snow radar
 B. R. Weertman, and C. F. Raymond: Detection of spatial variations of accumulation rate using radio echo sounding
 C. F. Raymond, B. R. Weertman, R. Mulvaney, D. A. Peel and L. Thompson: Geometry, motion and mass balance on Dyer Plateau, Antarctic Peninsula
 J. Calvet, J. Corbera and G. Furdada: Ice cap fluctuations on Livingstone Island from 1956 to 1991, from aerial photographs and satellite images
 J. Calvet, J. Corbera and F. Granada: Relationship between the texture parameters and the different fluctuations of the ice shoreline in the glacier basin of Moon Bay Livingstone Island from 1956 to 1991, from satellite images
 R. Bintanja, W. Knap, M. Cadée and J. Oerlemans: Sensitivity of the ice cap of King George Island to climate change: measurements and modelling
 R. Bintanja and M. van de Broeke: Local climate, circulation and surface energy balance of an Antarctic blue ice area
 G. Orombelli, C. Baroni, M. Frezzotti, R. Lozej, M. Meneghel, G. Smiraglia, I. Tabacco and L. Vittuari: Dynamics of small local glaciers at Terra Nova Bay (Victoria Land, Antarctic)
 I. D. Goodwin, M. Higham and I. Allison: Accumulation variability in eastern Kemp Land, Antarctica
 I. Allison and I. Goodwin: The grounding zone of the Amery Ice Shelf
 C. L. Hulbe and I. M. Whillans: A method for determining ice thickness change at remote locations using GPS
 M. C. Smith, S. D. Mobbs, T. J. Pedley, S. E. Dover and J. C. King: Wind transport of snow over Antarctica
 A. Bateman, I. Moore, J. C. King, S. D. Mobbs, P. S. Anderson and E. M. Morris: Blowing snow around an Antarctic building: observations and model validation
 D. A. Peel, R. Mulvaney, C. F. Raymond and L. G. Thompson: Trends in snow accumulation rate in the past century in the Antarctic Peninsula region
 D. W. S. Limbert: The reconstruction of snow accumulation rates using synoptic surface meteorological reports
 T. J. Chinn: Glacier disequilibrium in the Convoy Range
 J. C. Simões and N. Dani: Mass balance and glaciochemistry of the King George Island (South Shetlands) ice cover

REMOTE SENSING

- J.-G. Winther: Spectral bidirectional reflectance of snow and glacier ice as measured in Dronning Maud Land, Antarctica
 P. Skvarca: Change and surface features of the Larsen Ice Shelf derived from the Landsat and Kosmos mosaics
 I. Sherjal and M. Fily: Temporal variations of microwave brightness temperatures over Antarctica
 D. Yi and C. R. Bentley: Analysis of satellite radar altimeter return waveforms over the East Antarctic ice sheet
 M. Higham, M. Reynolds, A. Brocklesby and I. Allison: Digital recording for the ANARE 100 MHZ ice radar: system description and results
 D. Fritzsche: Subglacial topography and ice thickness in the surroundings of the Schirmacher Oasis, Dronning Maud Land
 O. Watanabe, Y. Fujii, K. Kamiyama, F. Nishio, K. Sato, Y. Ageta, A. Furukawa, M. Nakawo and S. Takahashi: Folio series as the glaciological and climatological studies of Japanese Antarctic glaciological research in east Queen Maud Land
 T. A. Scambos: Improving AVHRR spatial resolution through data cumulation for mapping ice features in the high-latitude Antarctic
 J. Sievers, C. S. M. Doake, J. Ihde, D. R. Mantripp, V. S. Posdeev, B. Ritter, H. W. Schenke, F. Thyssen and D. G. Vaughan: Validating and improving elevation data of Filchner-Ronne-Schelfeis, Antarctica, with results from ERS-1
 A. P. R. Cooper and C. S. M. Doake: Shape-from-shading studies of remotely sensed images: the surface morphology of Rutford Ice Stream, Antarctica
 J. L. Bamber: A digital elevation model of the Antarctic ice sheet derived from ERS-1 altimeter data and comparison with terrestrial measurements
 D. R. Mantripp, J. L. Bamber and J. K. Ridley: A study of radar altimeter return signal variability over Filchner-Ronne Ice Shelf, Antarctica
 J. L. Bamber and C. R. Bentley: A comparison of satellite altimetry and ice thickness measurements of the Ross Ice Shelf, Antarctica
 J. G. Ferrigno, J. L. Mullins, J. A. Stapleton, R. A. Bindschadler, T. A. Scambos, L. B. Bellisime, J. A. Bowell and A. V. Acosta: Landsat TM image maps of the Shirase and Siple Coast ice streams, West Antarctica
 K. Heiland and H. W. Schenke: A height reference base of Filchner-Ronne Ice Shelf by ERS-1 radar altimetry