JOURNAL OF GLACIOLOGY

INDEX

Special Issue, 1987

All place-names and names of organizations are indexed under their local forms.

Advancement of glaciology: technology in, 66-77 Glacial geology: ice dynamics, 38 Atmospheric chemistry: global science, 42 Glacial/interglacial cycles: causes, 25-26 Glaciers: drilling, 11-14 electromagnetic methods, 15 fluctuations, 8-9 Basal net balance: ice dynamics, 37 geophysical measurements, 14-16 Bearing capacity: ice, 82-83 gravity method, 15 Bedrock mapping: ice sheets, 35-36 history of scientific investigations on, 4-24 Bore-hole sampling of deep ice: ice dynamics, 38 hydrology, 10-11 Boulton, G.S., (paper: Progress in glacial geology during the ice permeability, 10-11 last fifty years) 25-32 interferometry, 15 internal water channels, 10 length variations, 9-10 mass balance, 9-10 other electrical methods, 15-16 Causes of glacial/interglacial cycles: Cenozoic ice age, 25-26 pulsed radar, 15 Cenozoic ice age: causes of glacial/interglacial cycles, 25-26 seismic methods, 14-15 Channels: ice formation, 79-80 subglacial water channels, 10 Clarke, G.K.C., (paper: Short history of scientific investsurging, 8-9 thermal regime, 11 igations on glaciers) 4-24 Climatology: global science, 41-42 Glacier sliding: Colbeck, S.C., (paper: History of snow-cover research) 60-65 contemporary research, 8 Contemporary research: glacier sliding, 8 early research, 7 Glaciology: development of, 86-89 future key technology, 73-74 major advances and responsible technology, 68-73 Development of glaciology: International technology in advancement of, 66-77 impact of Glaciological Society, 86-89 Glen, J.W., (paper: Fifty years of progress in ice physics) Drilling: glaciers, 11-14 52-59 Dynamics: sea ice, 50 Global geophysics: ice sheets, 42-44 Global science: atmospheric chemistry, 42 climatology, 41-42 ice sheets, 41-42 Gold, L.W., (paper: Fifty Early research: glacier sliding, 7 years of progress in ice Electrical methods: glaciers, 15-16 engineering) 78-85 Electromagnetic methods: glaciers, 15 Gravity method: glaciers, 15 Energy balance: sea ice, 49-50 Extrusion flow: ice dynamics, 39-40 Historical sketch: sea ice, 48-49 History: Fluctuations: glaciers, 8-9 scientific investigations on glaciers, 4-24 Frozen ground: mechanics, 83-84 snow-cover research, 60-65 Future role: of International Glaciological Society, 86-89 Hydrology: glaciers, 10-11 Geomorphological products of glaciation, 27-29 Ice: Geological products of glaciation, 27-29 as a material, 66-67 Geophysical measurements: glaciers, 14-16 bearing capacity, 82-83 Geophysical surveys: Icebergs, 80-81 ice thickness and bedrock mapping, 35-36 Icebreakers, 81-82 ice volume, 36 Ice cover: sea ice, 50 radio echo-sounding, 35-36 Ice dynamics: Glacial deposition, 28-29 basal net balance, 37 Glacial erosion, 27-28 bore-hole sampling of deep ice, 38

extrusion flow, 39-40

Glacial geology, 25-32

glacial geology, 38 mass balance, 37 modelling studies, 41 sliding and internal deformation, 40 surface net balance, 36-37 surging, 40 temperature distribution, 38 Ice engineering: progress in, 78-85 Ice formation: rivers and channels, 79-80 Ice movement: internal, 37-38 surface, 37 Ice physics: progress in, 52-59 Ice sheets: form and extent, 33-35 global geophysics, 42-44 global science, 41-42 ice thickness and bedrock mapping, 35-36 satellite altimetry, 33-35 satellite studies of surface form and extent, 33-35 surface features, 33-35 understanding of, 33-47 Ice-sheet studies and global science: ice sheets and climatology, 41-42 Ice thickness: ice sheets, 35-36 Ice volume: geophysical surveys, 36 Icing, 83 Impact: of International Glaciological Society on development of glaciology, 86-89 Interferometry: glaciers, 15 International Glaciological Society: impact on development of glaciology, 86-89 Internal deformation: ice dynamics, 40 Introduction, 3

Key technology: for future glaciology, 73-74

Large-scale glacial depositional patterns, 29
Length variations: glaciers, 9-10
Lewis, E.L., (paper: Fifty years of progress in understanding sea ice) 48-51

Major advances: responsible technology in glaciology, 68-73 Mass balance: glaciers, 9-10 ice dynamics, 37 sea ice, 49-50 Mechanics: frozen ground, 83-84 Modelling studies: ice dynamics, 41 Models: sea ice, 50 Morphology: sea ice, 50

Navigation, 81-82

Physical properties: sea ice, 49 Pre-late Cenozoic glacial epochs in Earth history, 26-27 Progress:
glacial geology, 25-32
ice engineering, 78-85
ice physics, 52-59
ice sheets, 33-47
sea ice, 48-51
Pulsed radar: glaciers, 15

Satellite altimetry: ice sheets, 33-35

Radio echo-sounding: ice thickness and bedrock mapping, 35-36
Rivers: ice formation, 79-80
Robin, G. de Q., and Swithinbank, C., (paper: Fifty years of progress in understanding ice sheets) 33-47
Role: of International Glaciological Society on the development of glaciology, 86-89
Röthlisberger, H., (paper: Introduction) 3

Scientific investigations: on glaciers, 4-24 Scientific style: trends, 16-18 Sea ice, 80 Sea ice: dynamics, 50 energy and mass balances, 49-50 historical sketch, 48-49 ice cover, 50 models, 50 morphology, 50 physical properties, 49 understanding of, 48-51 Seismic methods: glaciers, 14-15 Short history: of scientific investigations on glaciers, 4-24 Sliding: ice dynamics, 40 Snow-cover research: current (post-1970), 63-64 discovery (1900-36), 61-62 history of, 60-65 preparation (pre-1900), 61 recent (1936-70), 62-63 Surface features: ice sheets, 33-35 Surface form and extent: ice sheets, 33-35 Surface net balance: ice dynamics, 36-37 Surging: glaciers, 8-9 ice dynamics, 40 Swithinbank, C., see Robin, G. de Q., and Swithinbank, C.

Technology:
advancement of glaciology, 66-77
major advances in glaciology, 68-73
Temperature distribution: ice dynamics, 38
Thermal regime: glaciers, 11

Weertman, J., (paper: Impact of the International Glaciological Society on the development of glaciology and its future role) 86-89

Zwally, H.J., (paper: Technology in the advancement of glaciology) 66-77