Contents

Preface vii

MARTINI, I. P., FRENCH, H. M. & ALBERTI, A. P. Ice-marginal and periglacial processes and sediments: an introduction 1

INGOLFSSON, O. Fingerprints of Quaternary glaciations on Svalbard 15

LØNNE, I. & NEMEC, W. Modes of sediment delivery to the grounding line of a fast-flowing tidewater glacier: implications for ice-margin conditions and glacier dynamics 33

LØNNE, I. & NEMEC, W. The kinematics of ancient tidewater ice margins: criteria for recognition from grounding-line moraines 57

LUKAS, S. & SASS, O. The formation of Alpine lateral moraines inferred from sedimentology and radar reflection patterns: a case study from Gornergletscher, Switzerland 77

PÉREZ ALBERTI, A., DIAZ, M. V., MARTINI, I. P., PASCUCCI, V. & ANDREUCCI, S. Upper Pleistocene glacial valley-junction sediments at Pias, Trevinca Mountains, NW Spain 93


KELLER, M., HINDERER, M., AL-AMI, H. & RAUSCH, R. Palaeozoic glacial depositional environments of SW Saudi Arabia: process and product 129

FRENCH, H. Frozen sediments and previously-frozen sediments 153

LEYV, J. S., HEAD, J. W. & MARCHANT, D. R. Gullies, polygons and mantles in Martian permafrost environments: cold desert landforms and sedimentary processes during recent Martian geological history 167

THORN, C. E., DARMODY, R. G. & DIXON, J. C. Rethinking weathering and pedogenesis in alpine periglacial regions: some Scandinavian evidence 183

GUIGLIELMINI, M., FAVERO-LONGO, S. E., CANNONE, N., PIERVITTO, R. & STRINI, A. Role of lichens in granite weathering in cold and arid environments of continental Antarctic 195

VANDENBERGHE, J. Periglacial sediments: do they exist? 205

VAN STEIJN, H. Stratified slope deposits: periglacial and other processes involved 213


BROOKFIELD, M. E. Aeolian processes and features in cool climates 241

NEWELL, W. L. & DEJONG, B. D. Cold-climate slope deposits and landscape modifications of the Mid-Atlantic Coastal Plain, Eastern USA 259

Index 277