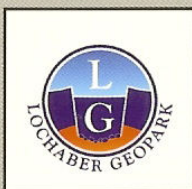


# THE QUATERNARY OF GLEN ROY AND VICINITY

Field Guide

Edited by  
A.P. Palmer, J.J. Lowe,  
& J. Rose.

Quaternary Research Association



2008

## List of Contents

List of Contributors	3
List of Contents	4
Preface	6
Acknowledgements	7
<b>1. Setting the context - John Lowe, Adrian Palmer and Alison MacLeod.</b>	<b>8</b>
<b>2. Assessment of remote sensed imagery on the analysis of landforms in Glen Roy</b> Chao-Yuan Chen and Jim Rose.	36
<b>Day One:</b>	
<b>3. Loch Lomond Readvance glaciers in the West Drumochter Hills</b> Doug Benn and Colin Ballantyne.	46
<b>4. Lateglacial and Early Holocene pollen records in the Upper Truim Valley - Mike Walker</b>	53
<b>5. Tephrostratigraphical investigations of the basal sediment sequence at Loch Etteridge</b> John Lowe, Paul Albert, Mark Hardiman, Alison MacLeod, Simon Blockley, Sean Pyne-O'Donnell.	60
<b>6. Microfacies analysis of laminated sediments in Glen Roy and Glen Spean</b> Adrian Palmer and Jim Rose.	66
<b>7. Loch Laggan East: Macroscale Sedimentology and Stratigraphy</b> Adrian Palmer and Alison MacLeod.	74
<b>8. Tephrostratigraphy of the Loch Laggan East lake sequence - Alison MacLeod.</b>	83
<b>9. Application of luminescence methods to the dating of glacial sediments associated with the Parallel Roads of Glen Roy - Sally Lowick and Richard Bailey.</b>	92
<b>Day Two:</b>	
<b>10. The Roy-Lochy rock slope failure cluster: implications for glacial breaching, ice movements, and Parallel Road dislocations - David Jarman.</b>	98
<b>11. Parallel Roads of Glen Roy and adjacent glens - Alistair Dawson and Shaun Hampton.</b>	105
<b>12. The northern Creag Meagaidh massif: geomorphology and glacier modelling</b> Andrew Finlayson and Nick Golledge.	110
<b>13. Surface exposure dating of the "Parallel Roads" and associated depositional fans in Glen Roy - David Small and Derek Fabel.</b>	119
<b>14. Description of laminated sediments on the surface of the Glen Turret Fan (NN342 922)</b> Adrian Palmer.	127
<b>15. Description of laminated sediments on the surface of the Burn of Agie Fan (NN3643 9195)</b> Adrian Palmer.	134

<b>16. Developing a varve chronology for the Spean-Roy lakes: the Lochaber Master Varve Chronology (LMVC) - Adrian Palmer.</b>	139
--	-----

**Day Three:**

<b>17. A DSM perspective on the geomorphology of the region around Glen Turret and the adjacent part of Glen Roy - Chao-Yuan Chen and Jim Rose.</b>	150
<b>18. A Younger Dryas ice cap to the north of Glen Roy: a new perspective on the origin of the Turret Fan - Doug Benn and David Evans.</b>	158
<b>19. Pollen stratigraphy of the Turret Bank pollen site (NN 337 927) - John Lowe.</b>	162

**Day Four:**

<b>20. A DSM perspective on the geomorphology of the region around Caol Lairig and the Viewpoint in the lower section of Glen Roy - Chao-Yuan Chen and Jim Rose.</b>	166
<b>21. The landforms and sedimentology of Caol Lairig (NN 227 786)</b> Gareth Tye and Adrian Palmer.	174
<b>22. Comparison between microfacies characteristics and the Greenland ice-core records</b> Adrian Palmer.	185
<b>23. Synthesis and wider perspective - John Lowe and Adrian Palmer.</b>	190
<b>References</b>	197
<b>Colour Images</b>	209

**Organisation of the guide:**

*As can be seen from the list of contents each paper in the guide is divided into numbered sections and when referring to a specific contribution, reference will be made to guide section 2. Figures within the main body of the guide are in black and white and a series of colour plates are inserted at the back of the guide. Some of these colour plates are unique to this section and reference is made to them in the text (CP-1), whilst other colour plates are duplicates of black and white figures in the main section of the guide. Where this is the case, the relevant colour plate number will be in brackets at the bottom of the figure to aid navigation to the plate.*



Figure 1: Important physiographic and drainage features in the field area and vicinity. Of particular importance are the arterial flows of the Spean-Laggan and Roy valleys, which is why the greatest attention is paid here to their general architecture.

