

Fig. 5. Structural data from the Stack of Glencoul area. *a*. The orientation of the Ben More thrust and three reverse faults associated with it. Crosses represent the poles of the planes. *b*. Poles of foliation planes in primary mylonitic rocks (dots) and phyllonites (crosses). *S* and *S'* represent the mean orientations of foliation in primary mylonitic rocks and phyllonites, respectively. *c*. Axes of 97 small folds in the area. Contours: 1, 3, 5, 10, 15, 20 per cent per 1 per cent area. *d*. 70 penetrative lineations. Contours: 1.5, 10, 30, 50 per cent per 1 per cent area.

THE STACK OF GLENCOUL AREA

General description of area.—Figure 4 (in pocket) is a structural map of the Moine thrust zone between Beinn Aird da Loch and the Fionn Allt. The contacts of Lewisian, Torridonian, and Cambrian rocks to the west of the Moine thrust are based on the Geological Survey maps. The data recorded on the map represent only a small proportion of the measurements I made in the area. The data are recorded more fully in the fabric diagrams (figs. 5, 6).

The outcrop of the Moine thrust in the area is sinuous, but the general trend

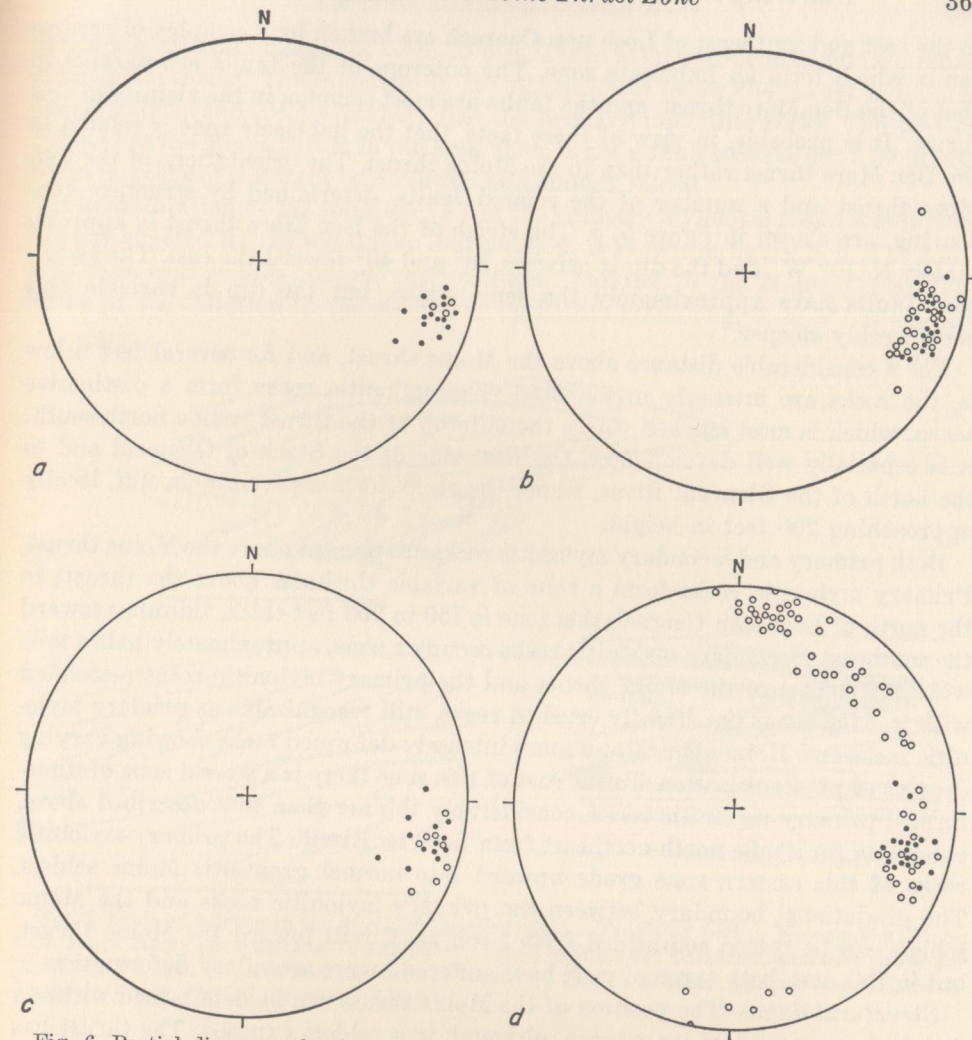


Fig. 6. Partial diagrams showing orientations of fold axes (circles) and lineations (dots). *a*. Cambrian and Torridonian rocks below the Moine thrust. *b*. Primary mylonitic rocks. *c*. Moine schists. *d*. Zone of secondary mylonitic rocks (*B_n*).

of the outcrop is northwest. To the west of the thrust, Lewisian and Cambrian rocks forming parts of the Glencoul and Ben More nappes are exposed. In the western part of the area shown in figure 4 (in pocket), the Lewisian gneiss and the Cambrian quartzites belong to the upper part of the Glencoul nappe. The Ben More thrust outcrops to the southeast of Loch nan Caorach, and the rocks to the east of this thrust (Cambrian quartzites, Fucoid Beds, Serpulite Grit, and limestones) represent the most northerly exposures of the Ben More nappe. Thrust slices of Cambrian quartzite and Torridonian rocks, carried on other important, but unnamed, thrusts, outcrop immediately below the Moine thrusts; a small lenticle of quartzite outcrops at the base of the Stack of Glencoul and a considerably larger slice of Cambrian quartzite and Torridonian sediments extends from Loch an Eircill southeastward beyond the limits of the map. The Cambrian rocks