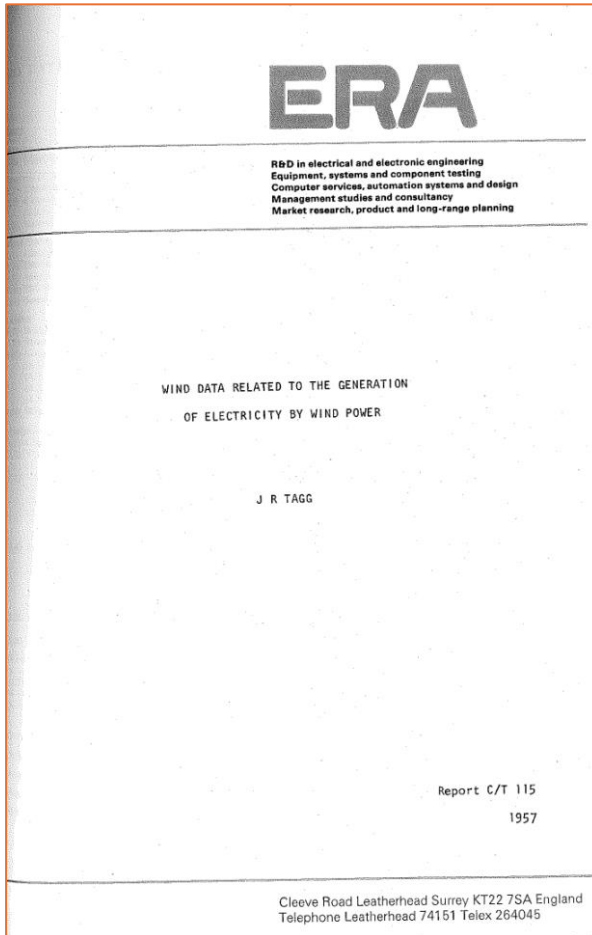


After WWII, and alongside Juul (DK) and Hütter (DE), Edward Golding undertakes wind energy research in his home country (UK) between 1949 and 1965



The work includes characterizing wind conditions on Scottish hilltops

Two decades later, an IEA Wind research task led by Peter Taylor (Canada), carry out the Askervein hill experiment, a cornerstone in wind flow modelling.

BASIC 1982, 19083 reports at:

<http://www.yorku.ca/pat/research/Askervein/index.html>

Report: MSRB-83-8

ASKERVEIN '82: Report on the September/October 1982 Experiment to Study Boundary-Layer Flow over Askervein, South Uist

by
P.A. Taylor and H.W. Teunissen

Research Report: MSRB-84-6

The Askervein Hill Project:
Report on the Sept./Oct. 1983,
Main Field Experiment

by
P.A. Taylor and H.W. Teunissen

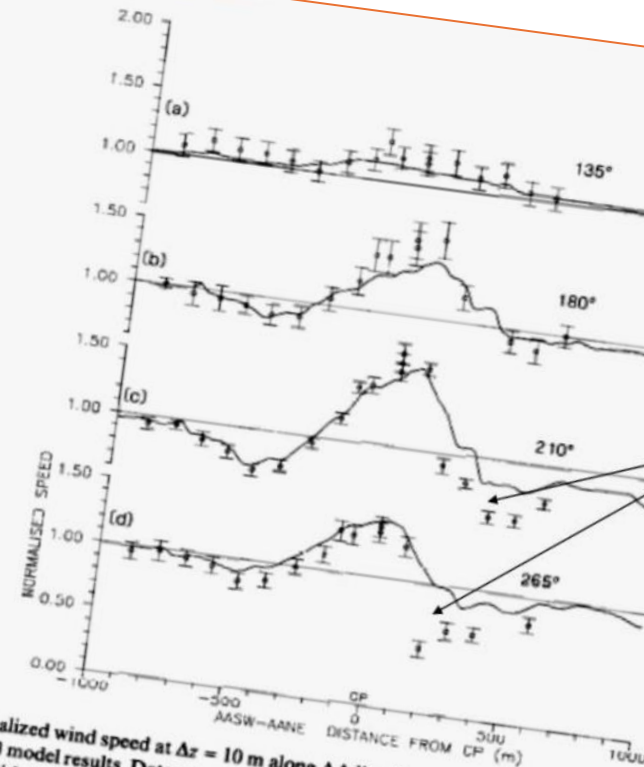


Fig. 10. Normalized wind speed at $\Delta z = 10$ m along AA line for selected wind directions and comparisons with MS3DJH/3 model results. Data are based on averages for the direction groups listed in TT87, Table 7b excluding runs with $|Ri| > 0.015$. Upstream wind directions: (a) 135°; (b) 180°; (c) 210°; (d) 265°. $\bar{x}$ mean of 10 min values, error bars denote one standard deviation; — MS3DJH/3 model results.

MS3DJH does well on upstream side of the hill but not in lee of the hill when intermittent separation occurs

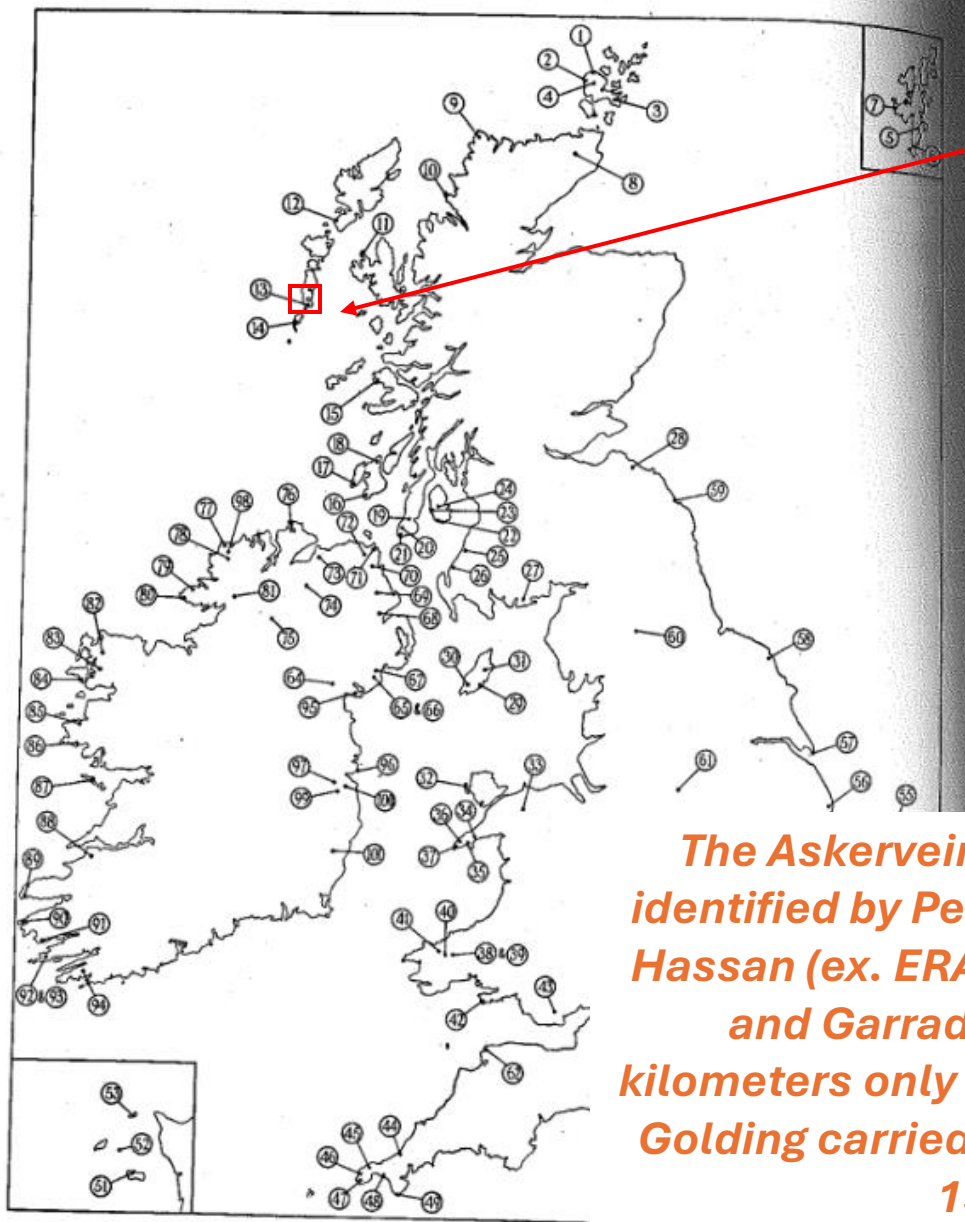
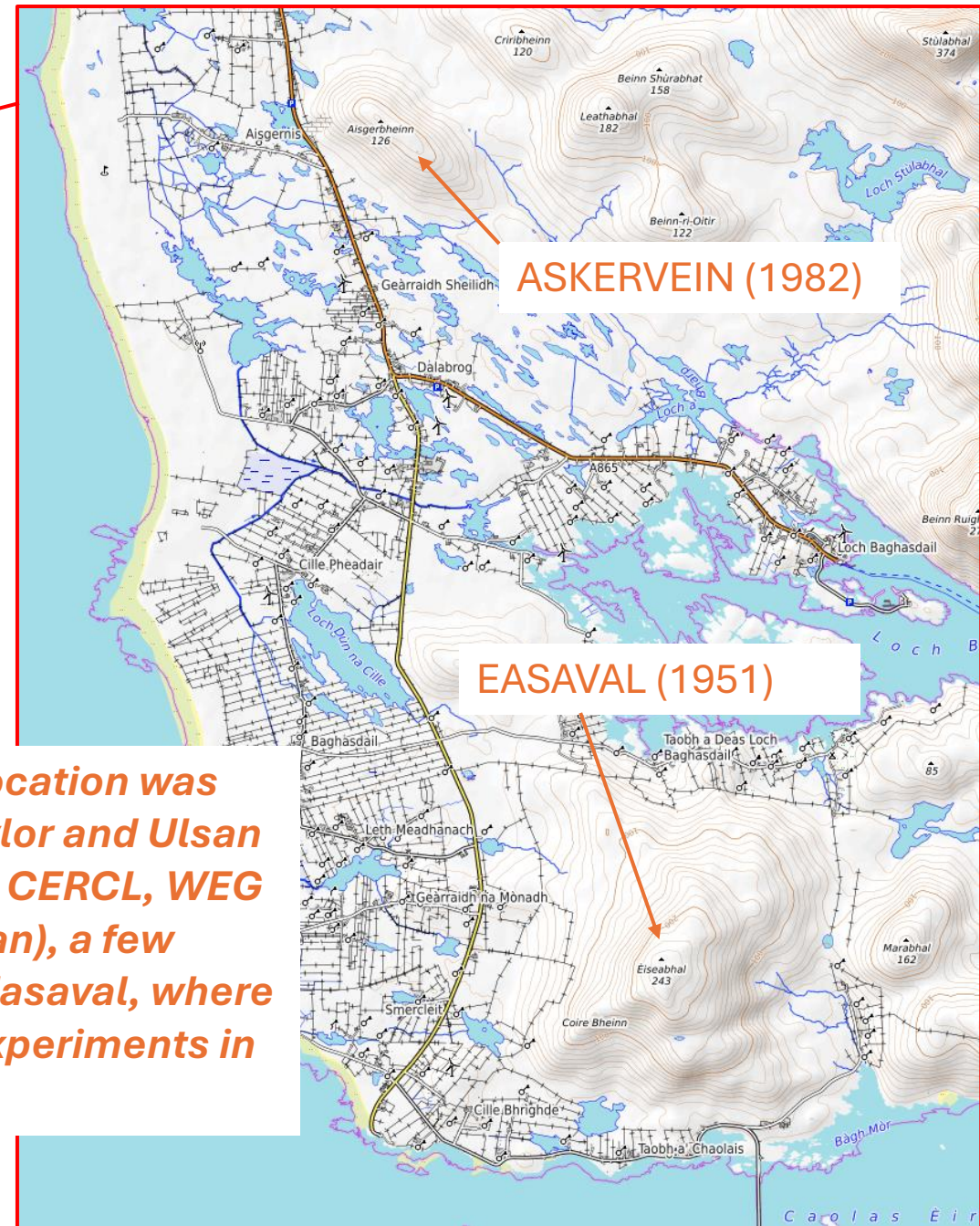


Fig. 1.—E.R.A. wind survey sites.

The numbers against each site correspond to the characteristic numbers given in Tables 1 and 2, etc.

The Askervein hill location was identified by Peter Taylor and Ulsan Hassan (ex. ERA, then CERCL, WEG and Garrad Hassan), a few kilometers only from Easaval, where Golding carried out experiments in 1951 ☺



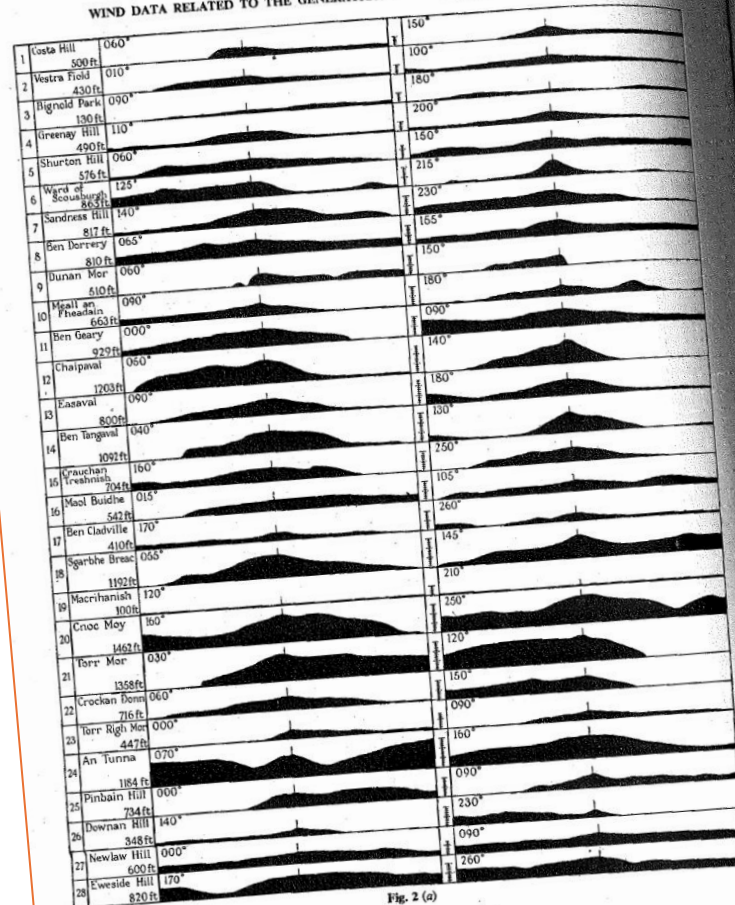


Fig. 2 (a)

Fig. 2.—Sectional elevation of E.R.A. wind survey sites. The first view of each

Fig. 2.—Sectional elevation of E.R.A. wind survey sites. The first view of each hill is of the cross section having the largest area. The second one is drawn looking in a direction 90° clockwise from the first. When the hill profile is similar from all directions, the first profile is drawn looking due north. The figures in degrees on each diagram refer to the direction in which the observer is facing. The altitude of each site is given in feet. The position of the anemometer on each diagram is indicated by a short vertical line. The width of each cross-sectional view is 3 miles.

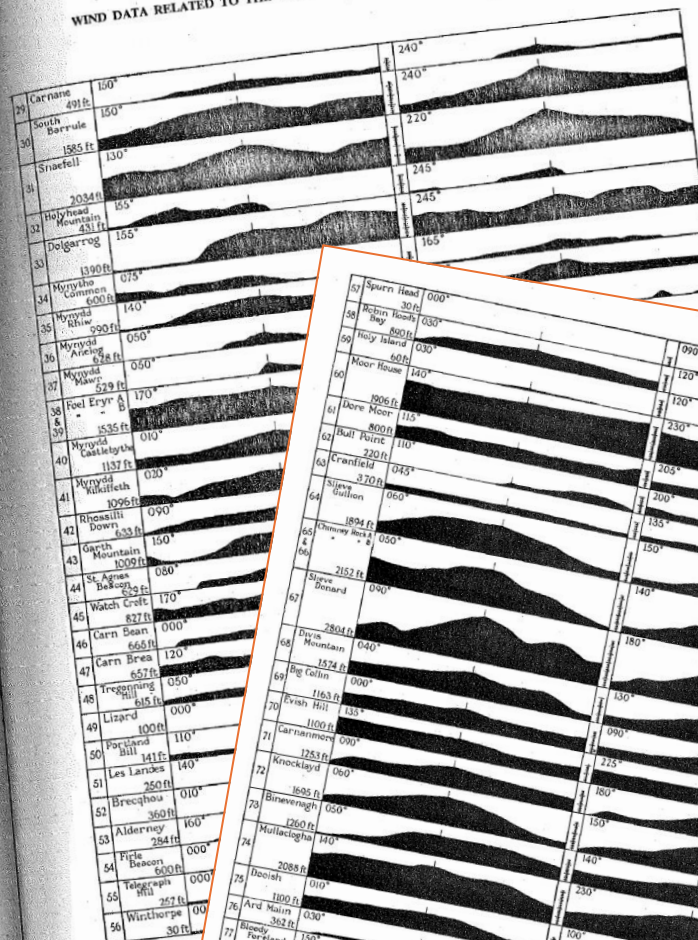


Fig. 2 (c)

OMG so many perfect hills

(from Tagg, 1957)

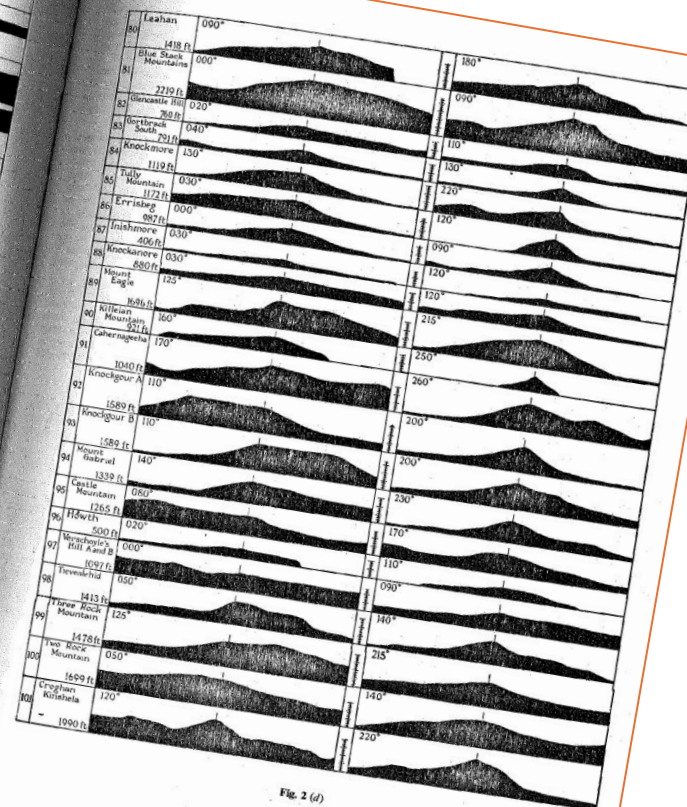


Fig. 2 (d)