

METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT AND POTENTIAL
EVAPOTRANSPIRATION OVER GREAT BRITAIN

SOIL MOISTURE DEFICIT AT 0900 GMT ON 23 APRIL 1975

Cold weather prevailed from the issue of the last bulletin [3 April 1975] to the 10th with snow falls occurring generally except on the 6th and 10th when falls were restricted to a few areas mainly in Scotland. For the remaining period until the 21st, Great Britain was generally wet except on the 12th and 19th when rainfall was restricted mainly to Scotland [including Northern England on the 19th]. Heavy rain and thunderstorms were reported on the 18th. The 22nd was generally dry over most of Great Britain. Rainfall values indicate that general rainfall, over England and Wales, has already exceeded the average for the month by 11% and has reached the average for April over Scotland.

The larger deficits, indicated in the last issue, in the Lothians and Ayresshire continued to develop as a result of the fairly dry cold weather in the early days of the month. Similar sized deficits [> 10 mm] also developed in the Central Scottish Lowlands, Southern Scotland and Central Lancashire. During this period the largest deficits amounting to 19 mm were found in Dumfries. The change to generally wet weather reduced deficits over the United Kingdom to an insignificant level, but field capacity exists in Kirkcudbright. Deficits are, however, increasing slightly in the Midlands, East Anglia, Southern and South-East England. The largest deficits, amounting to 10 mm, are to be found in North Kent but these can still be regarded as insignificant.

RATES OF SUBSCRIPTION: £7.50 per season (post free)

Apply to: Director-General
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Issued on 24 April 1975

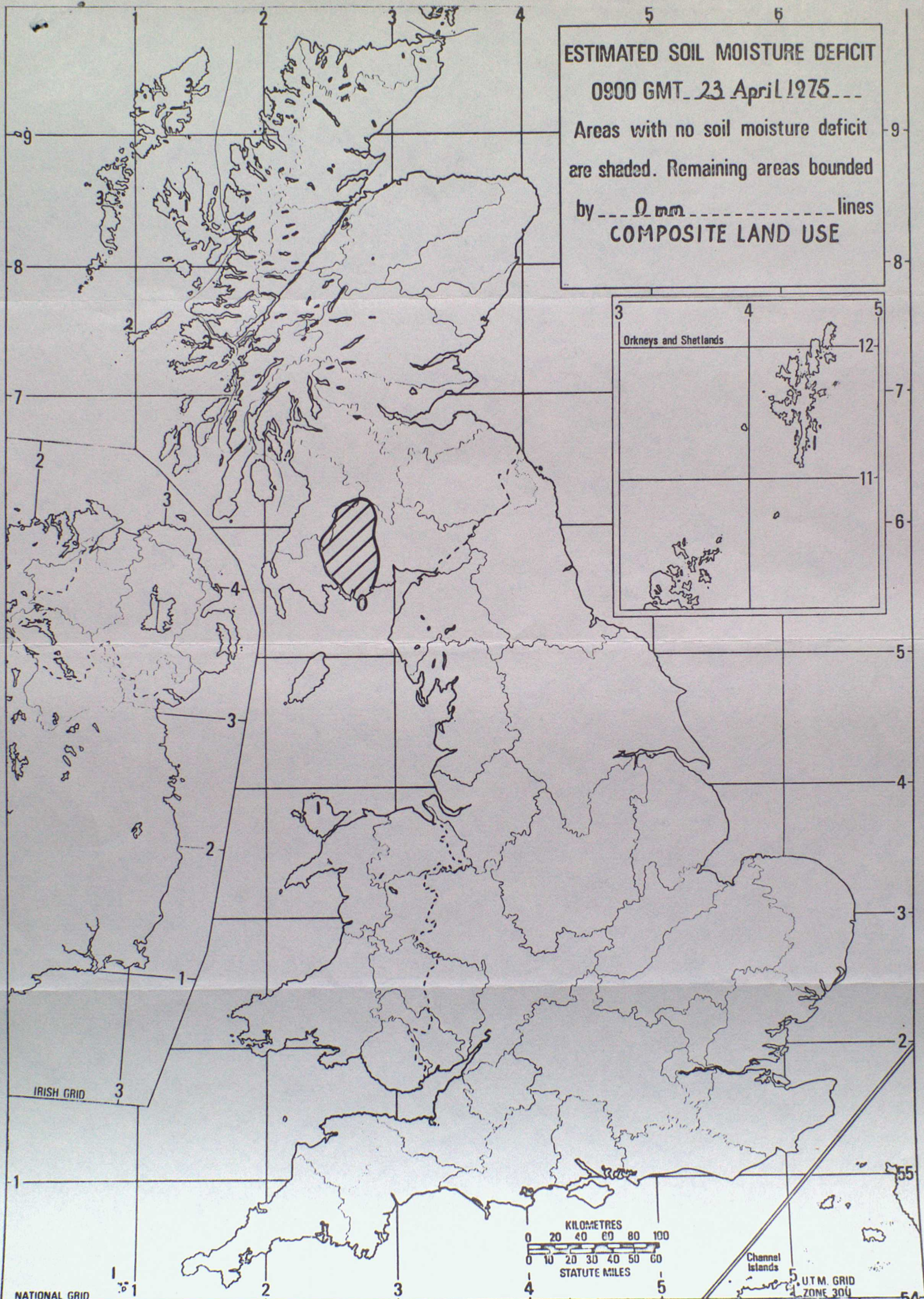


ESTIMATED SOIL MOISTURE DEFICIT (S.M.D.)
AT 09 GMT ON 23 APR 1975

River Area	Estimated Areal S.M.D. mm	Change during the week ending 09 GMT on		
		23 Apr 75 mm	16 Apr 75 mm	9 Apr 75 mm
Northumbrian	1.2	+ 0.2	- 2.1	+ 2.5
Yorkshire	1.3	+ 0.1	+ 0.4	+ 0.8
Trent	2.0	+ 1.1	- 0.5	+ 1.1
Lincolnshire	2.3	+ 1.5	+ 0.5	+ 0.3
Welland and Nene	4.3	+ 3.9	+ 0.2	+ 0.2
Great Ouse	5.6	+ 5.0	+ 0.6	- 0.1
Norfolk and Suffolk	6.2	+ 5.5	+ 0.7	0.0
Essex	6.5	+ 4.8	+ 1.5	+ 0.2
Lee Conservancy	6.4	+ 5.1	+ 1.1	+ 0.1
Thames Conservancy	5.8	+ 5.2	- 0.1	+ 0.5
London Area	6.9	+ 5.6	+ 1.1	+ 0.1
Kent	6.5	+ 4.7	+ 1.7	+ 0.1
Sussex	6.2	+ 5.7	+ 0.5	0.0
Hampshire	6.1	+ 6.1	- 1.5	+ 1.4
Isle of Wight	5.8	+ 5.8	- 0.5	+ 0.5
Avon and Dorset	3.9	+ 3.0	- 2.5	+ 3.3
Devon	1.3	+ 0.9	- 3.3	+ 3.5
Cornwall	1.4	+ 1.4	- 4.0	+ 3.8
Somerset	2.3	+ 0.5	- 2.3	+ 4.1
Bristol Avon	4.0	+ 1.7	- 2.0	+ 4.3
Severn	2.9	+ 2.2	- 1.1	+ 1.5
Wye	1.7	+ 1.2	- 1.5	+ 1.9
Usk	1.4	+ 0.9	- 1.0	+ 1.5
Glamorgan	1.4	+ 0.9	- 1.6	+ 2.1
South West Wales	1.3	+ 1.0	- 2.8	+ 3.1
Gwynedd	1.3	+ 0.3	- 2.9	+ 3.9
Dee and Clwyd	1.3	- 0.2	- 2.1	+ 3.6
Mersey and Weaver	1.3	- 0.5	- 2.5	+ 4.3
Lancashire	1.2	- 0.7	- 3.7	+ 5.4
Cumberland	1.7	- 5.0	+ 0.1	+ 3.6

N.B. Apart from normal changes these differences also reflect retrospective adjustments after receipt of additional data.

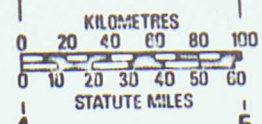
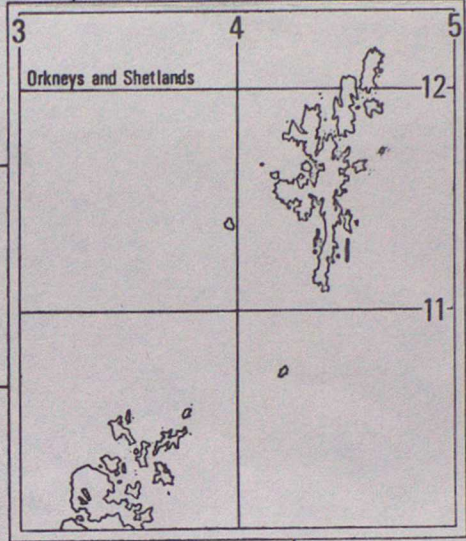
KH 2



ESTIMATED SOIL MOISTURE DEFICIT
0900 GMT 23 April 1975

Areas with no soil moisture deficit
are shaded. Remaining areas bounded
by --- 0 mm --- lines

COMPOSITE LAND USE



NATIONAL GRID

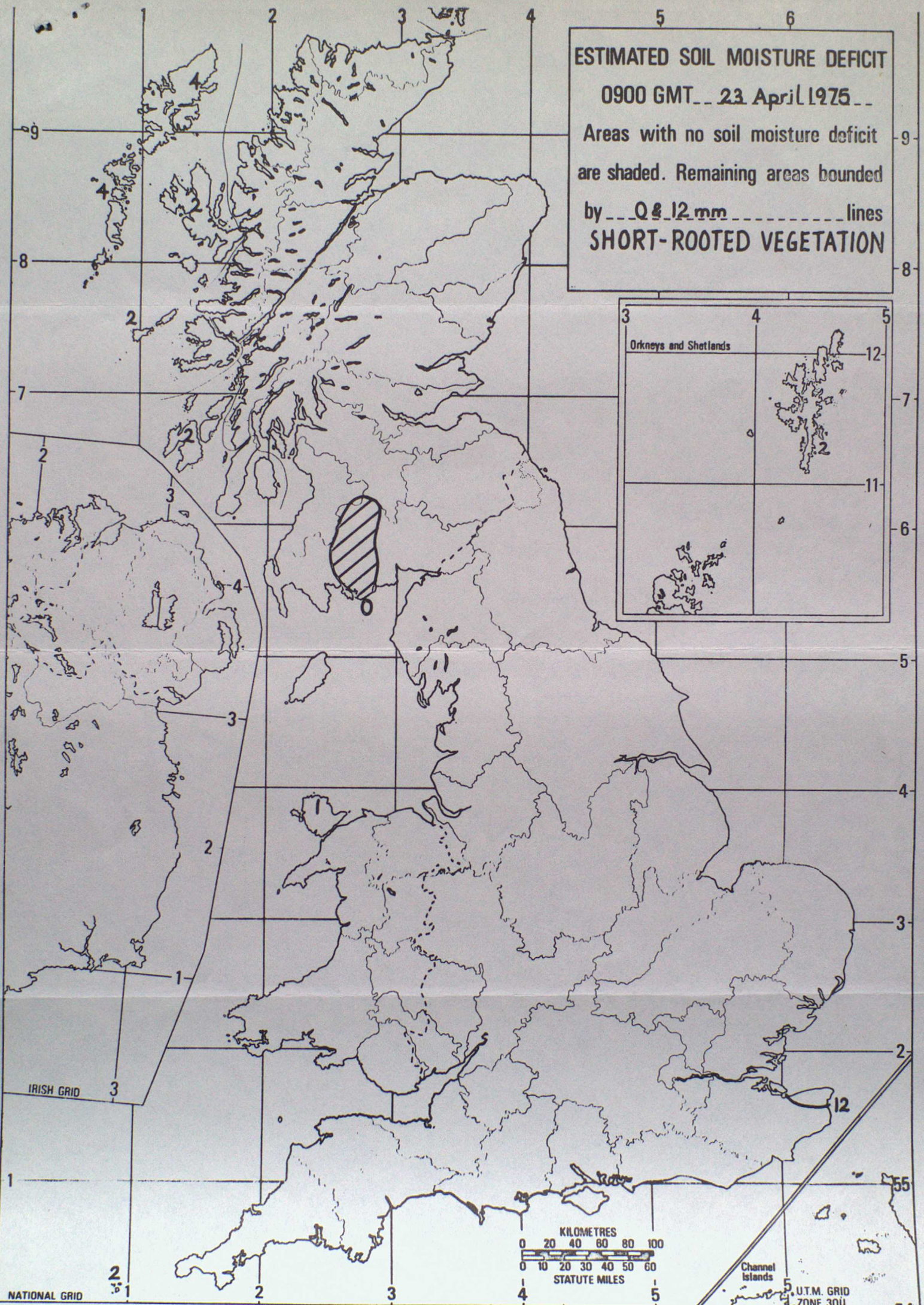
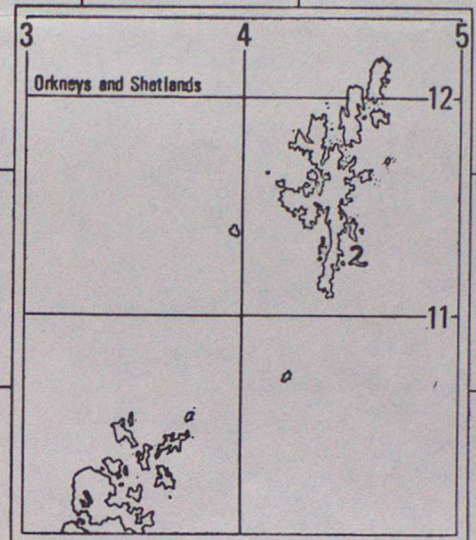
UTM GRID
ZONE 30U

ESTIMATED SOIL MOISTURE DEFICIT

0900 GMT... 23 April 1975...

Areas with no soil moisture deficit are shaded. Remaining areas bounded by ... 0 & 12 mm ... lines

SHORT-ROOTED VEGETATION



U.T.M. GRID
ZONE 30U
Mer. O/Carto/D.O. (1392A)