



METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT OVER GREAT BRITAIN

AT 0900 GMT on 27 JULY 1977

Between the issue of the previous bulletin (13 July 1977) and 16 July the weather over England and Wales was mainly dry. From 17th onwards however it was generally unsettled, with rain occurring fairly widely on most days, although amounts of rain were generally small. Over Scotland, apart from 13th and 14th (which were mainly dry), the weather was unsettled throughout the period. The wettest day over Great Britain as a whole was 17 July. Falls of 12 mm or more occurred at Cudrose, Cornwall (14 mm) on 17th, Lerwick, Shetland (15 mm) on 19th, St. Mawgan, Cornwall (14 mm) on 21st, Lerwick (19 mm) on 22nd, Wick (16 mm) on 23rd and Ringway, Manchester (16 mm) on 24 July.

Over most of England and Wales soil moisture deficits were slowly increasing for most of the period, although there were small decreases in North East England and Cumbria during the first week and in Cheshire and parts of Lancashire during the second week. Over Scotland deficits have been reduced quite considerably, especially in the west, with parts of North West Scotland returning to field capacity. Over virtually the whole of England and Wales composite land use deficits are now above average for the end of July. The largest deficits are at Lowestoft (117 and 121 mm respectively, for both short rooted vegetation and composite land use).

RATES OF SUBSCRIPTION: £10.00 per season (post free)

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Issued 28 July 1977

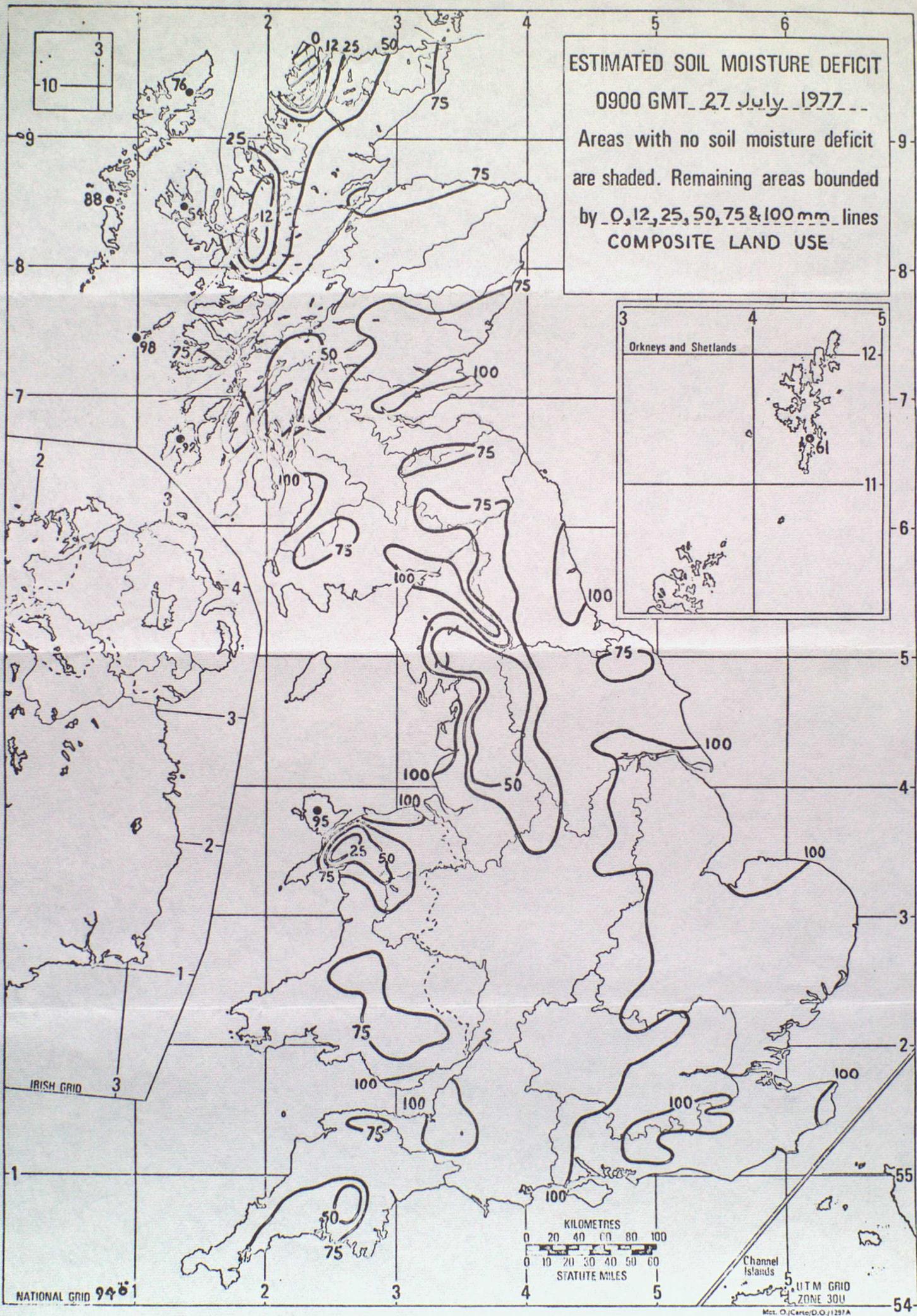
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ESTIMATED SOIL MOISTURE DEFICIT (S.M.D.)

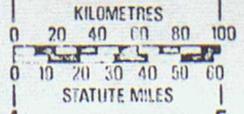
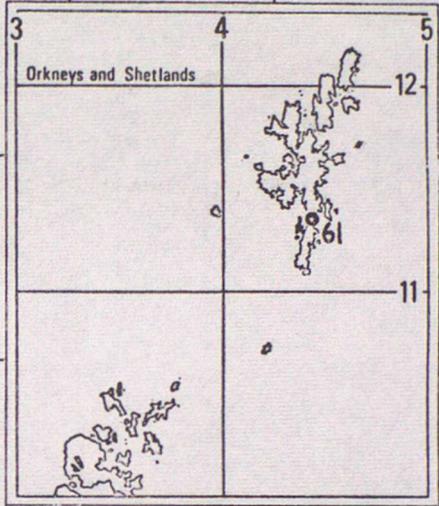
AT 09 GMT ON 27 JULY 1977

River Area	Estimated Areal	Change during the Week Ending 09 GMT on	
	S.M.D. MM	27 JULY 1977 MM	20 JULY 1977 MM
Northumbrian	85.0	+ 2.0	- 4.2
Yorkshire	84.0	+ 1.3	+10.8
Trent	90.8	- 0.3	+10.4
Lincolnshire	109.9	+ 2.9	+ 5.7
Welland and Nene	97.8	+ 1.3	+ 7.8
Great Ouse	97.6	+ 2.0	+ 9.4
Norfolk and Suffolk	106.0	+ 2.9	+ 6.0
Essex	108.9	+ 4.0	+ 5.5
Lee Division	103.5	+ 4.5	+ 6.3
Thames Conservancy	94.2	+ 3.2	+ 7.9
London Area	100.2	+ 4.3	+ 6.8
Kent	102.3	+ 5.8	+ 7.8
Sussex	101.0	+ 5.1	+ 5.6
Hampshire	91.6	+ 6.3	+10.8
Isle of Wight	109.6	+ 5.8	+ 1.4
Upper Thames	83.0	+ 5.1	+ 6.0
Avon and Dorset	86.1	+ 7.0	+ 9.0
Devon	84.9	+ 4.6	+ 6.1
Cornwall	68.9	+ 0.5	+ 5.9
Somerset	92.4	+ 5.6	+ 9.4
Bristol Avon	91.6	+ 7.1	+ 7.1
Severn	83.3	+ 3.8	+12.2
Wye	86.8	+ 9.6	+12.7
Usk	80.7	+ 9.8	+10.3
Glamorgan	81.7	+ 4.6	+ 6.6
South West Wales	87.1	+ 5.8	+ 8.9
Gwynedd	73.9	+ 4.7	+ 3.2
Dee and Clwyd	74.9	+ 3.1	+ 3.3
Mersey and Weaver	74.2	- 2.6	+ 7.4
Lancashire	62.4	- 0.7	+ 0.9
Cumbria	84.8	+ 2.4	- 5.5

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



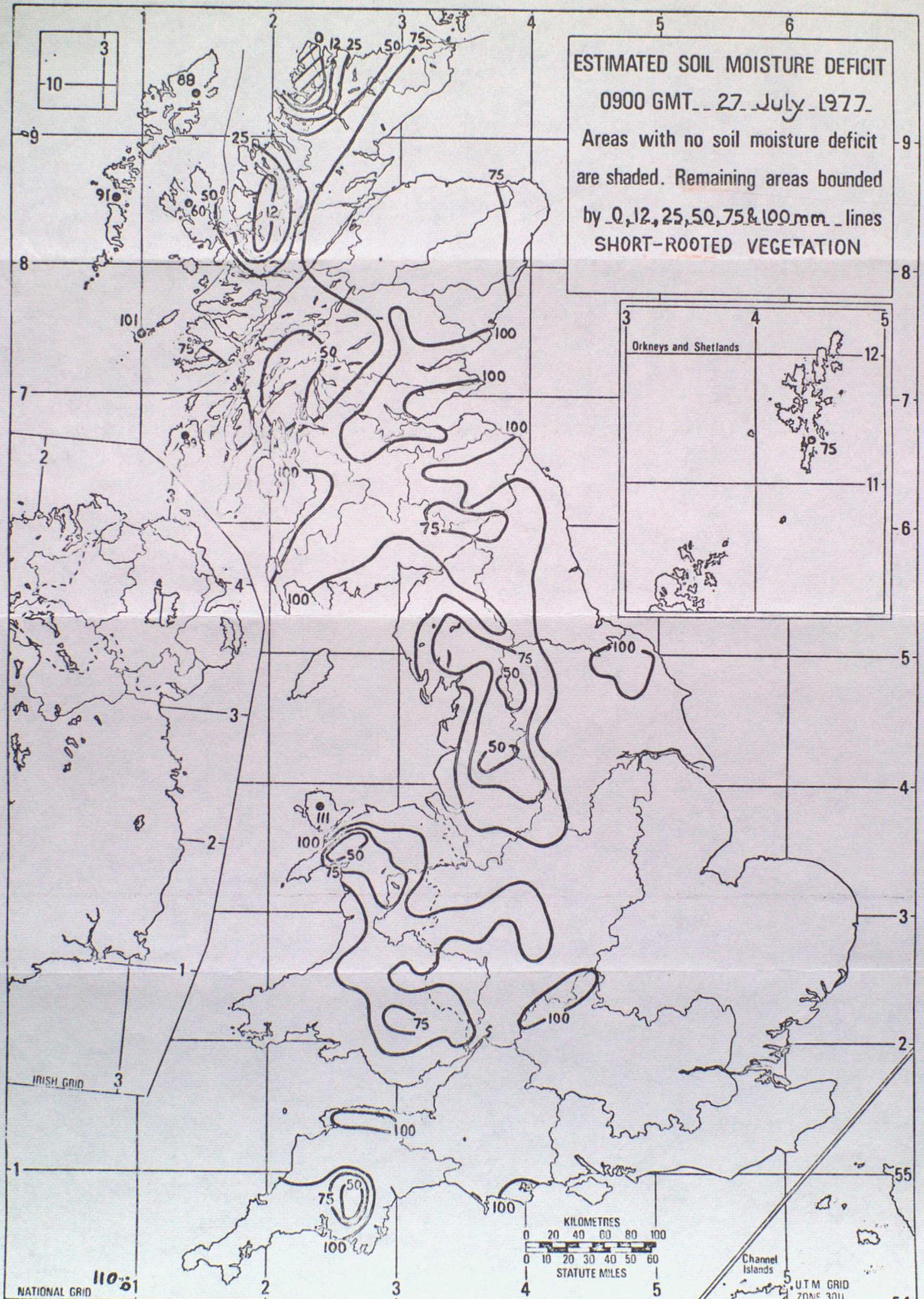
ESTIMATED SOIL MOISTURE DEFICIT
 0900 GMT 27 July 1977
 Areas with no soil moisture deficit
 are shaded. Remaining areas bounded
 by 0, 12, 25, 50, 75 & 100 mm lines
 COMPOSITE LAND USE



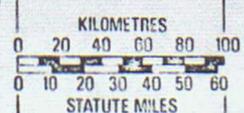
Channel Islands
 UTM GRID
 ZONE 30U
 Met. O. Carte/D.O./1297A

NATIONAL GRID 94 01

ESTIMATED SOIL MOISTURE DEFICIT
 0900 GMT.. 27 July 1977.
 Areas with no soil moisture deficit
 are shaded. Remaining areas bounded
 by 0, 12, 25, 50, 75 & 100 mm. lines
 SHORT-ROOTED VEGETATION



NATIONAL GRID 110 01



Channel Islands
 U.T.M. GRID
 ZONE 30U