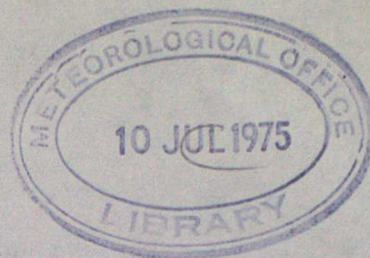


METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT AND POTENTIAL  
EVAPOTRANSPIRATION OVER GREAT BRITAIN

SOIL MOISTURE DEFICIT AT 0900 GMT ON 9 JULY 1975



Up to, and including, 6 July 1975 from the issue of the last bulletin (26 June 1975), Great Britain was generally dry except for isolated showers on 3 and 4 July and widespread rainfall in north and west Scotland on 2nd. The dry period was abruptly terminated on 7th by widespread thunderstorms over much of England and Wales, with rainfall being greatest in south-west England. Thunderstorms were also reported, mainly in the east of England, on the 8th. Over England and Wales generally, rainfall for May and June has been the 4th lowest this century for the 2 months combined and lowest since 1940. The month of June has been the driest since 1962. Similarly for Scotland, June has been the driest since 1955 and rainfall for May and June has been the lowest since 1951. Maximum reported falls of rain were 17mm (Benbecula) on 2 July, 16mm (Liverpool) on 4th, 27mm (Lyneham and Gloucester) on 7th, and 10mm (Kilnsea) on 8th. The showers of the 9th have reduced deficits indicated by the maps issued with this bulletin.

Deficits, over Great Britain, have continued to develop as a result of the recent dry weather but development has been checked somewhat by the rainfall experienced in the last 3 days. Short-root deficit values, over most of Britain, lie close to 115mm. The largest composite deficits are to be found in the coastal areas of Lancashire and the smallest deficits continue to be in the north-west Highlands of Scotland. The maximum and minimum computed composite values are 128mm (in Lancashire) and 30mm (in Sutherland). End of June composite deficits are the highest calculated, for several stations in the Midlands, south-west and central southern England, since 1941.

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

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Issued on 10 July 1975

F42



ESTIMATED SOIL MOISTURE DEFICIT (S.M.D.)  
AT 09 GMT ON 9 JUL 1975

River Area	Estimated Areal	Change during the week ending 09 GMT on	
	S.M.D. mm	9 Jul 75 mm	2 Jul 75 mm
Northumbrian	91.7	+ 7.2	+ 19.1
Yorkshire	103.2	+ 7.2	+ 11.1
Trent	108.7	+ 8.3	+ 10.4
Lincolnshire	106.2	+ 8.7	+ 10.4
Welland and Nene	104.1	+ 5.9	+ 10.2
Great Ouse	103.0	+ 6.5	+ 11.2
Norfolk and Suffolk	105.9	+ 8.5	+ 11.8
Essex	101.9	+ 6.3	+ 11.4
Lee Conservancy	101.0	+ 5.4	+ 12.4
Thames Conservancy	105.8	+ 3.3	+ 10.6
London Area	103.0	+ 3.6	+ 12.3
Kent	99.9	+ 1.9	+ 11.9
Sussex	100.0	- 1.8	+ 11.2
Hampshire	109.1	+ 1.8	+ 9.5
Isle of Wight	116.8	+ 5.2	+ 8.2
Avon and Dorset	113.5	+ 2.5	+ 8.9
Devon	109.9	- 0.2	+ 9.7
Cornwall	108.0	- 3.4	+ 10.8
Somerset	112.3	+ 1.4	+ 9.2
Bristol Avon	111.6	+ 0.7	+ 9.1
Severn	110.4	+ 5.0	+ 10.0
Wye	102.9	+ 1.3	+ 9.4
Usk	100.3	- 1.6	+ 9.5
Glamorgan	102.5	- 2.3	+ 9.7
South West Wales	103.3	- 1.2	+ 9.2
Gwynedd	109.0	+ 3.4	+ 11.4
Dee and Clwyd	106.8	+ 2.6	+ 11.7
Mersey and Weaver	110.8	+ 5.2	+ 10.9
Lancashire	113.4	+ 6.0	+ 11.8
Cumberland	105.0	+ 9.3	+ 14.2

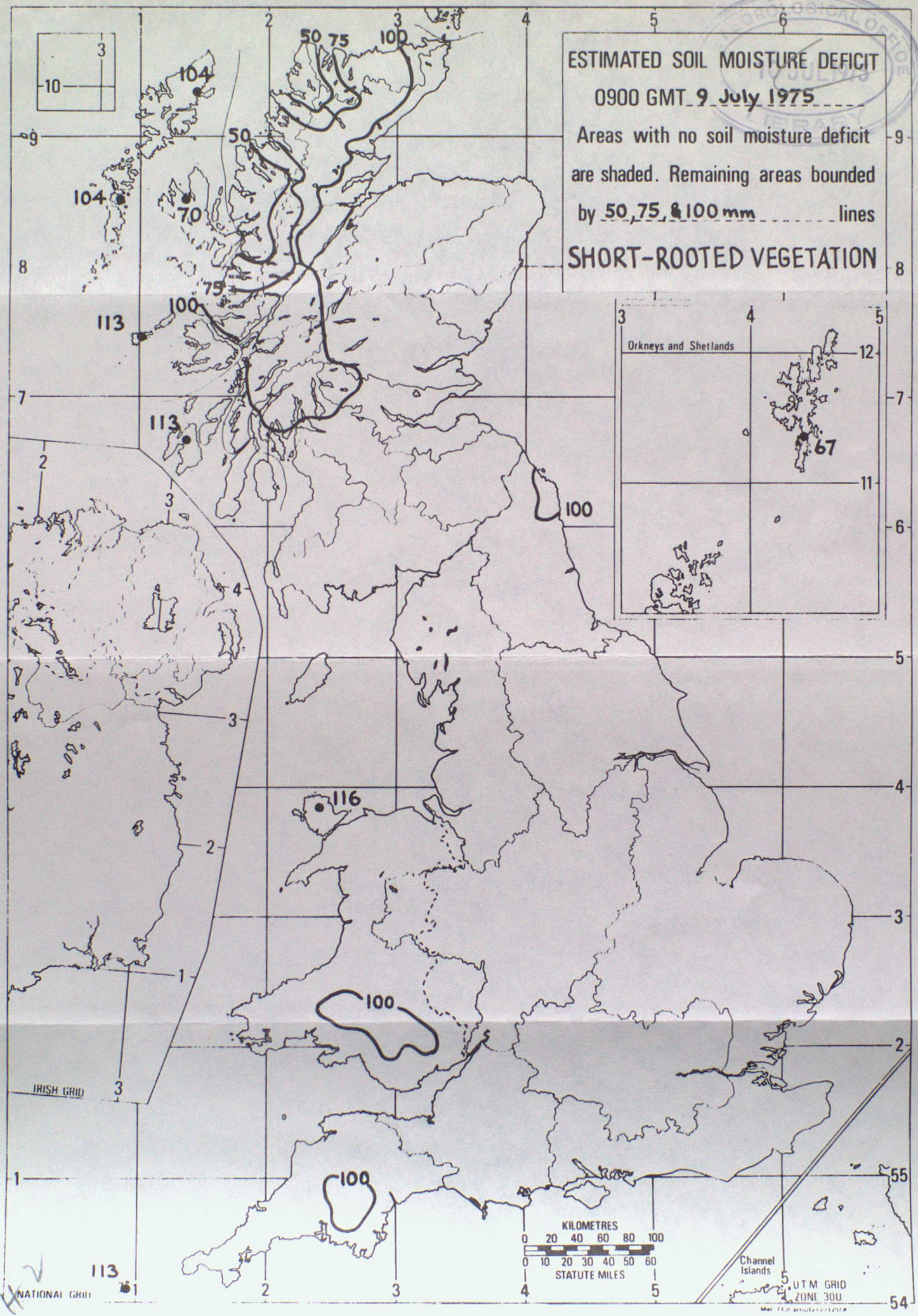
N.B. Apart from normal changes these differences also reflect retrospective adjustments after receipt of additional data.



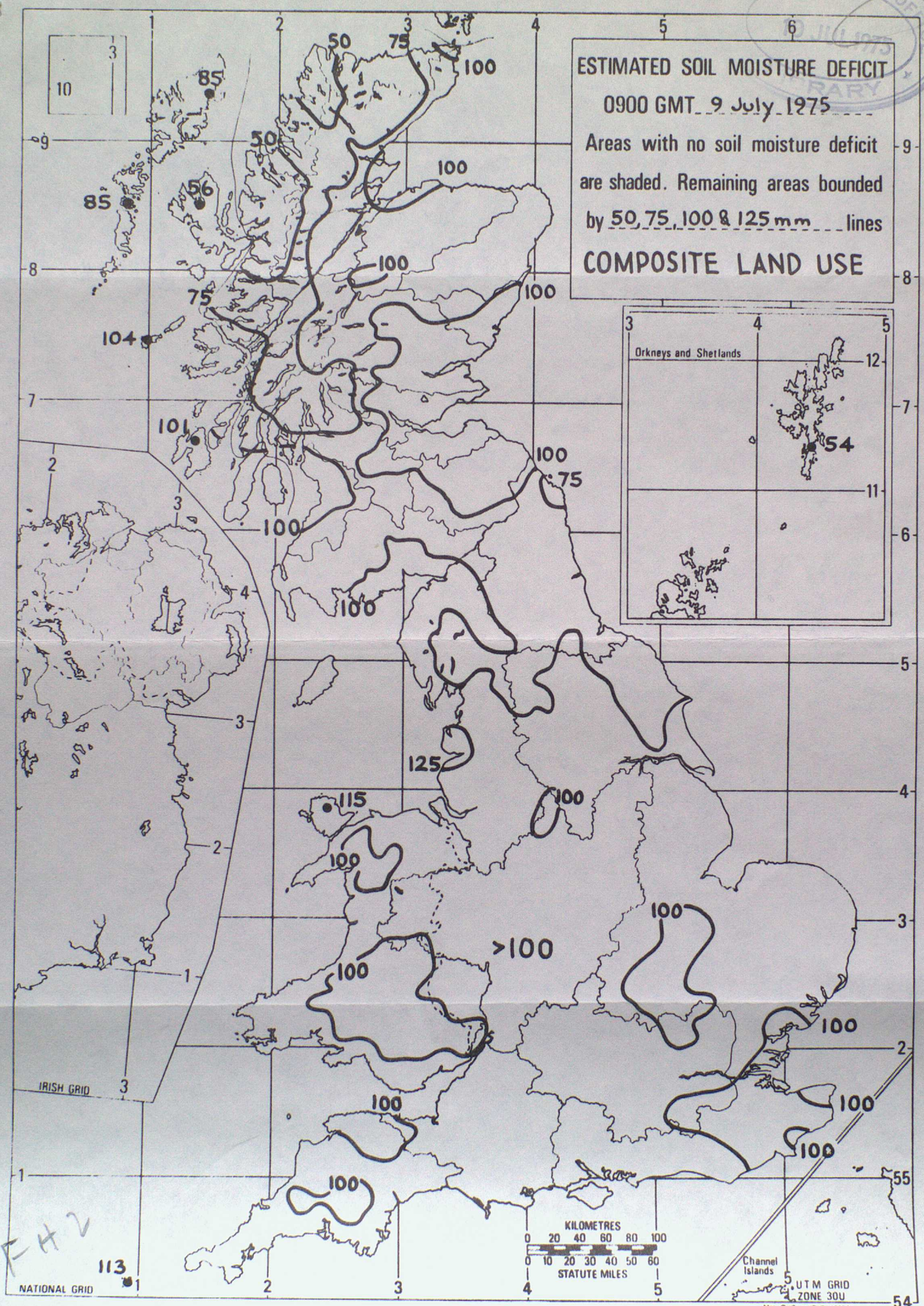
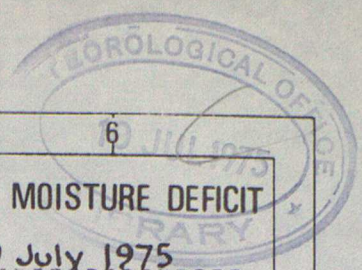
# ESTIMATED SOIL MOISTURE DEFICIT 0900 GMT 9 July 1975

Areas with no soil moisture deficit are shaded. Remaining areas bounded by 50, 75, & 100 mm lines

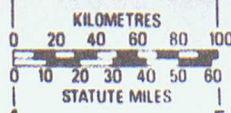
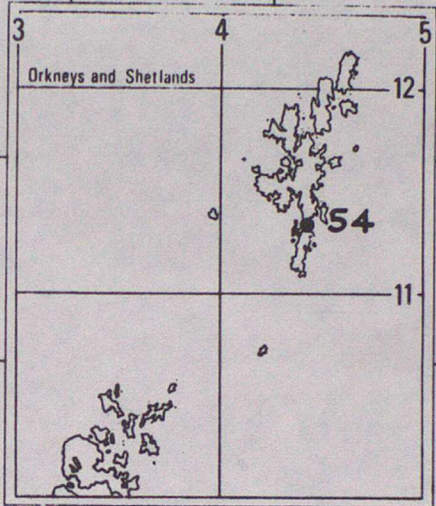
## SHORT-ROOTED VEGETATION







ESTIMATED SOIL MOISTURE DEFICIT  
0900 GMT 9 July 1975  
Areas with no soil moisture deficit  
are shaded. Remaining areas bounded  
by 50, 75, 100 & 125 mm lines  
**COMPOSITE LAND USE**



Channel Islands  
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