

A SYNTHESIS OF THE LEVANTINE BASIN CIRCULATION AND ITS VARIABILITY

A. HECHT* and E. OZSOY†

**Israel Oceanographic and Limnological Research
Haifa, Israel*

†*Institute of Marine Sciences
Middle East Technical University (METU)
Erdebili-Icel, Turkey*

The variability of the Levantine Basin circulation and hydrography is reviewed based on a collection of recent data sets. The region is populated with basin-wide and mesoscale turbulent features. The flow encircling Cyprus and the bifurcation of the mid-Levantine jet are shown to be variable in interannual time scales. As a result, qualitative changes are identified in the general circulation during the three year observation program. Support for these observations is gained from long term changes detected in the properties and location of some of the gyres. Earlier data sets like those of the MC cruises also indicate some behavioural changes occurring in the long term. The general circulation of the Levantine Basin is considerably different and more complex than the traditional descriptions of it.

OCT-NOV 85 BILIM & SHIKMONA

surface analysis

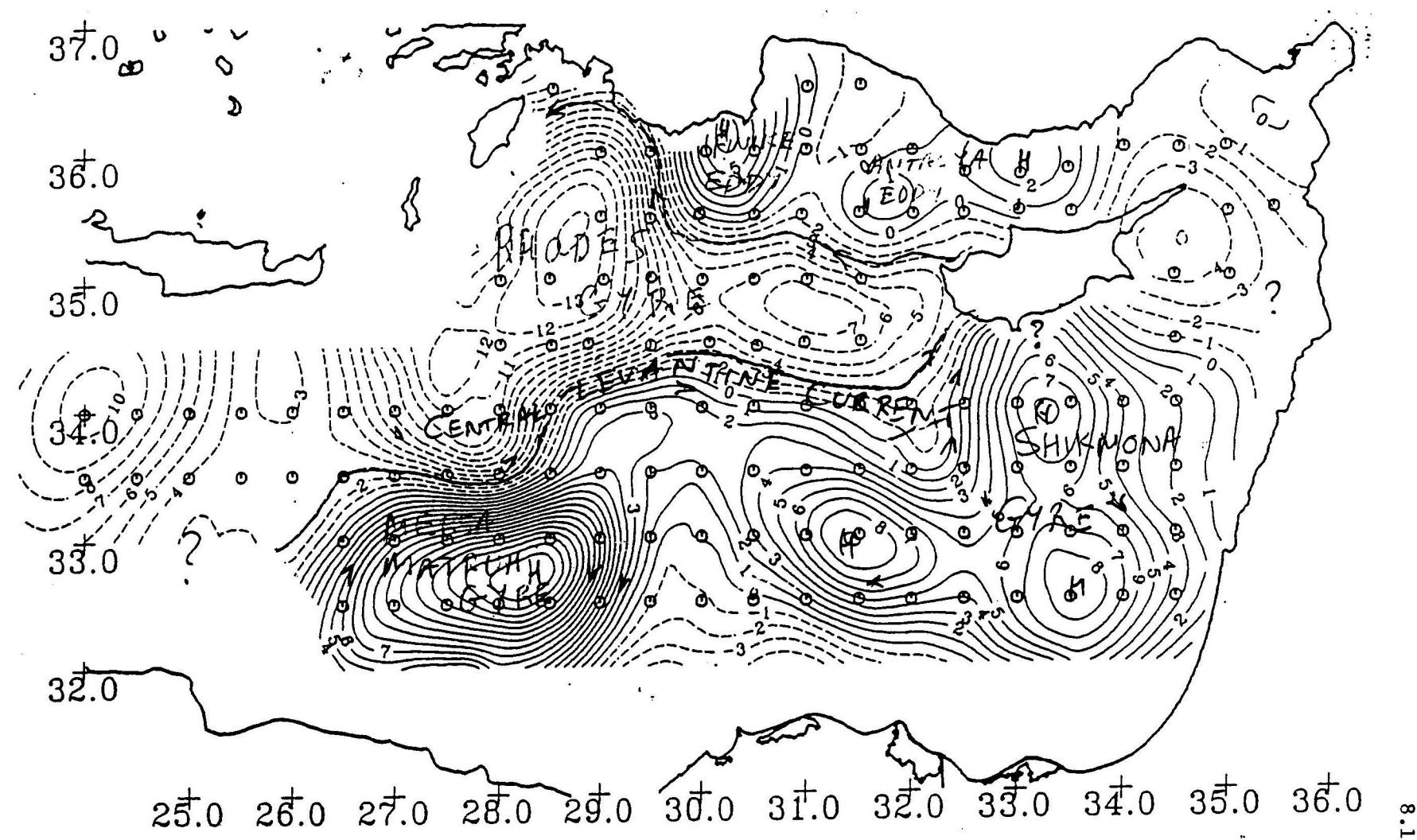


FIG 2

MAR-APR 86 BILIM & SHIKMONA

surface analysis

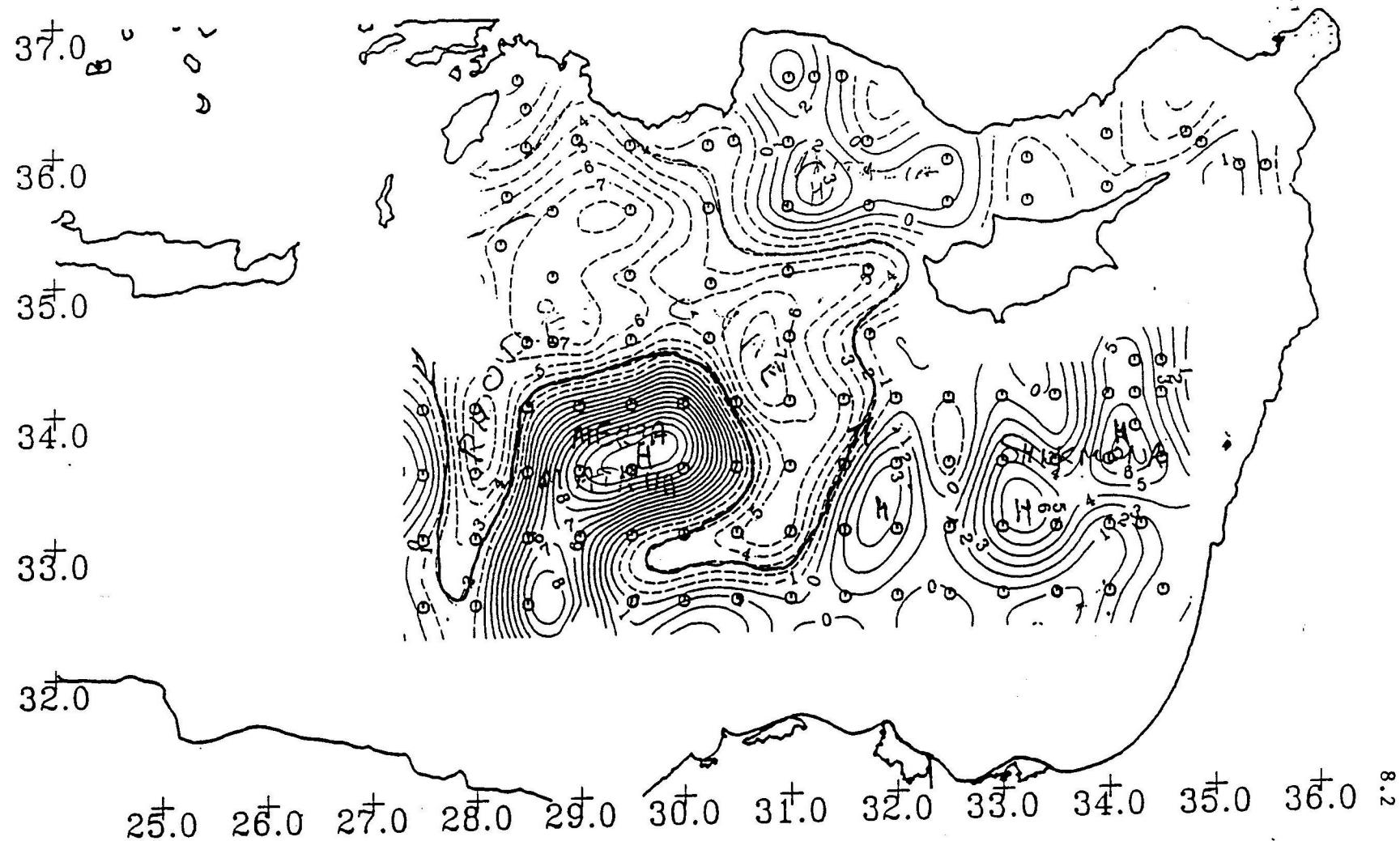


FIG 3

JUN 86 BILIM

surface analysis

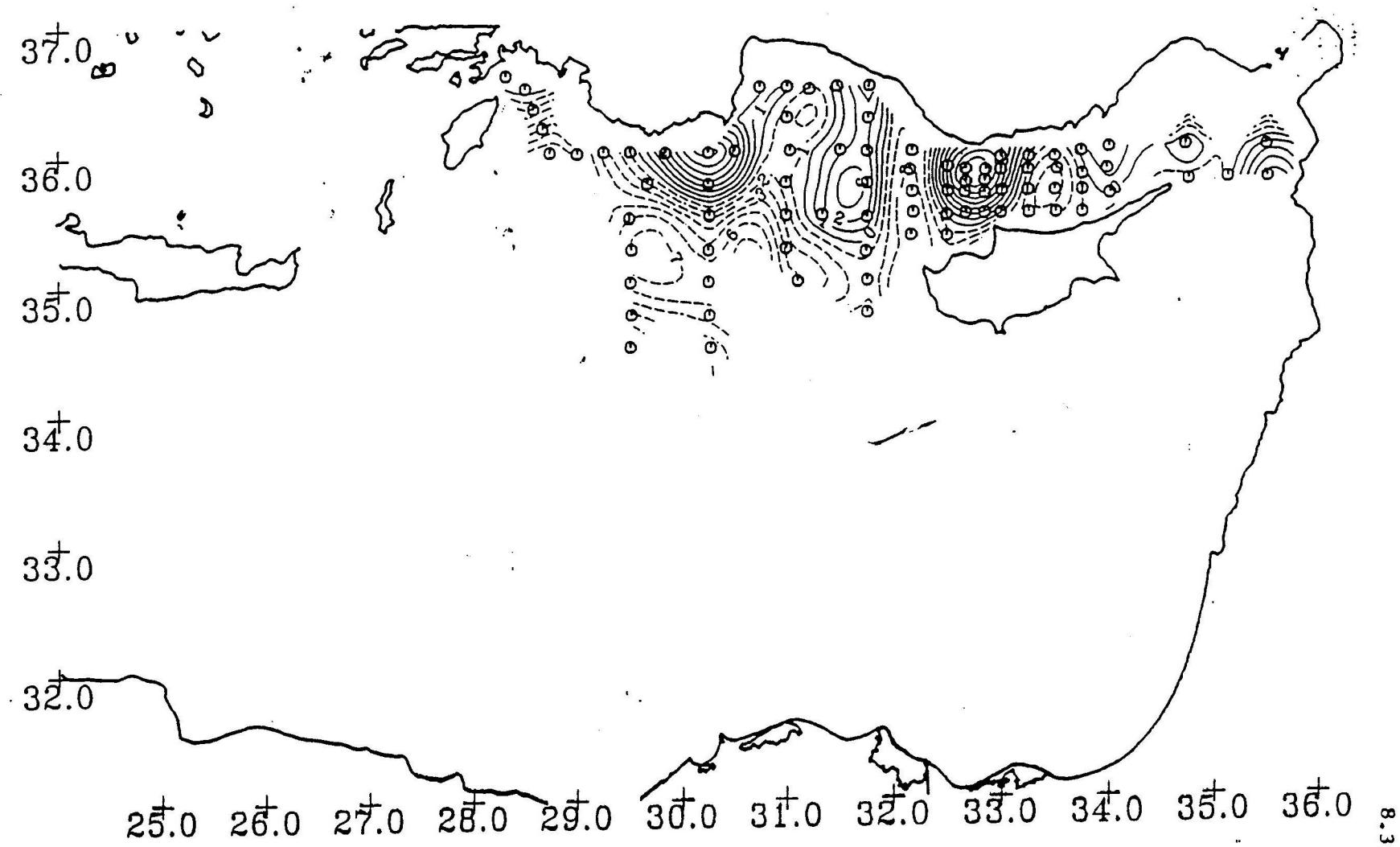


FIG 4

FEB 87 BILIM

surface analysis

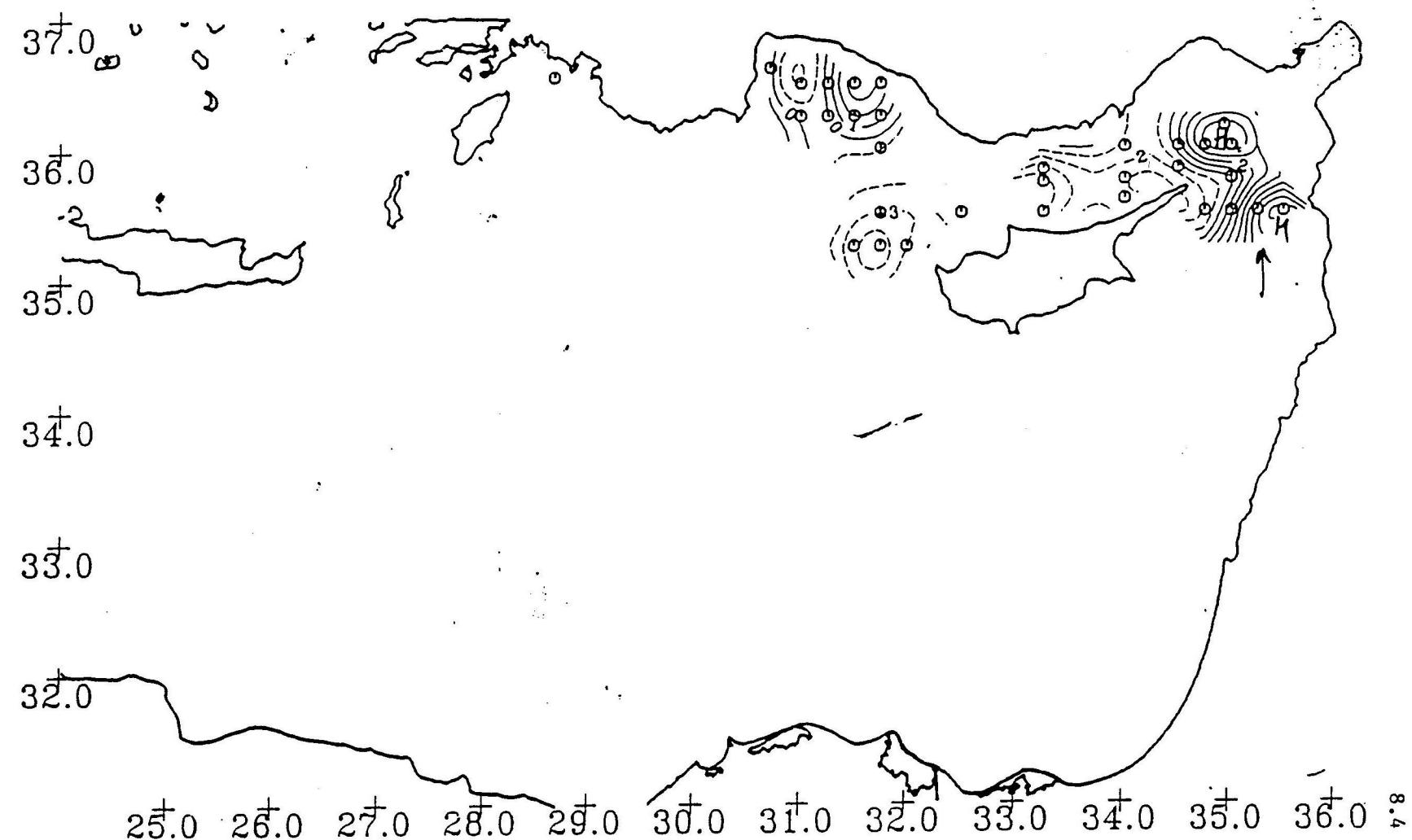


FIG 5

surface analysis

JUN 87 BILIM

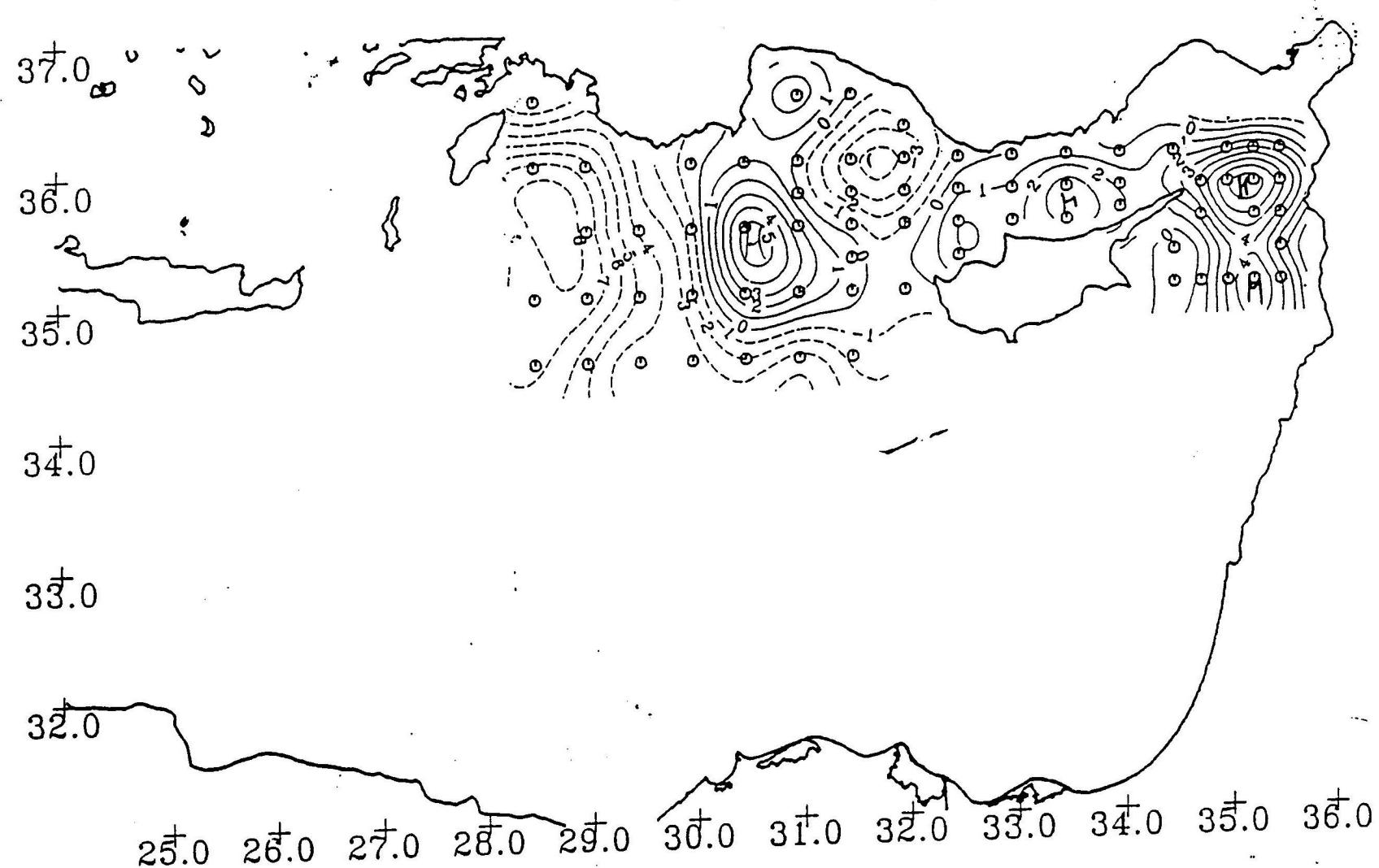


FIG 6

AUG-SEP 87 BILIM & SHIKMONA

surface analysis

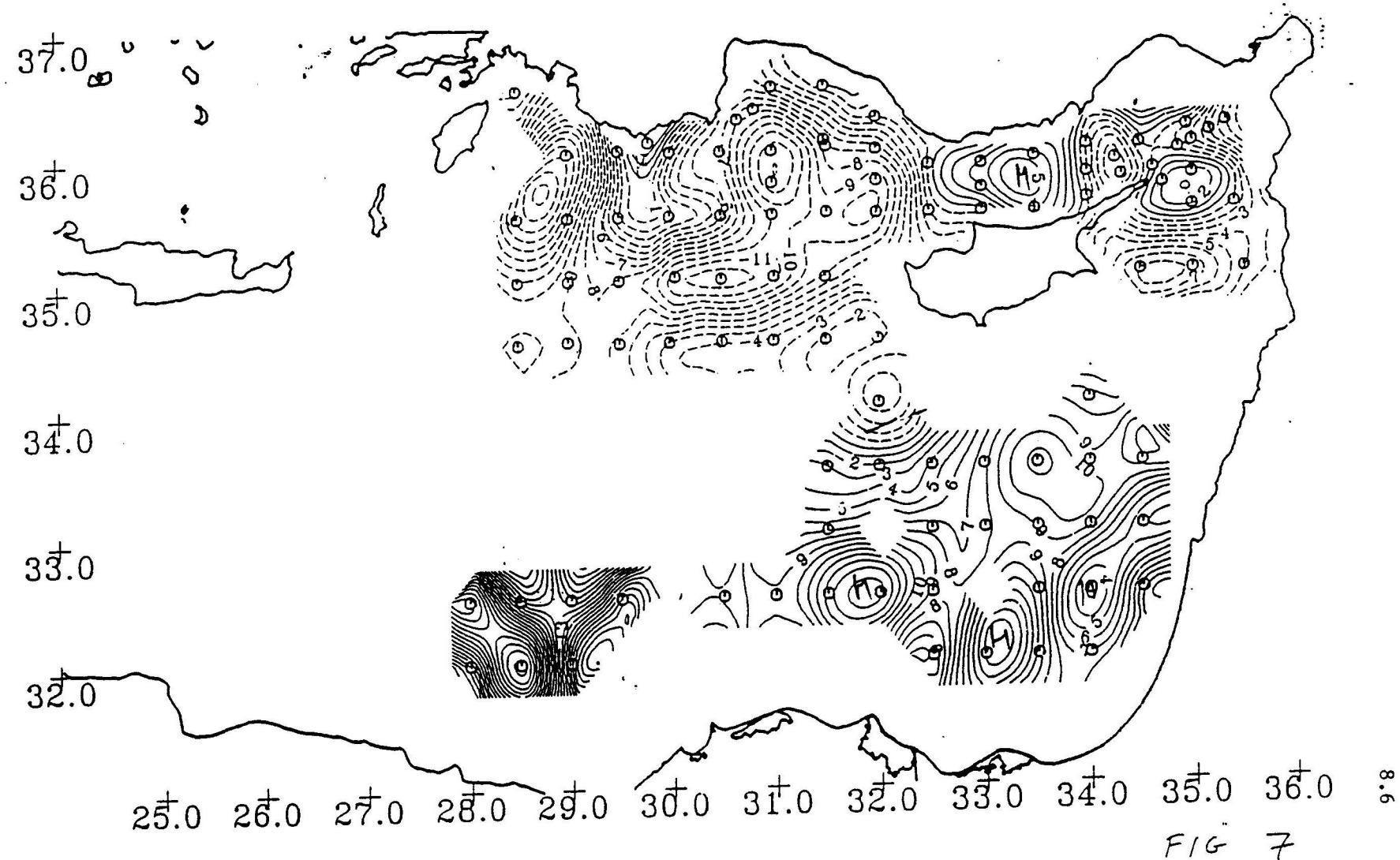


FIG 7

JUL 88 BILIM

surface analysis

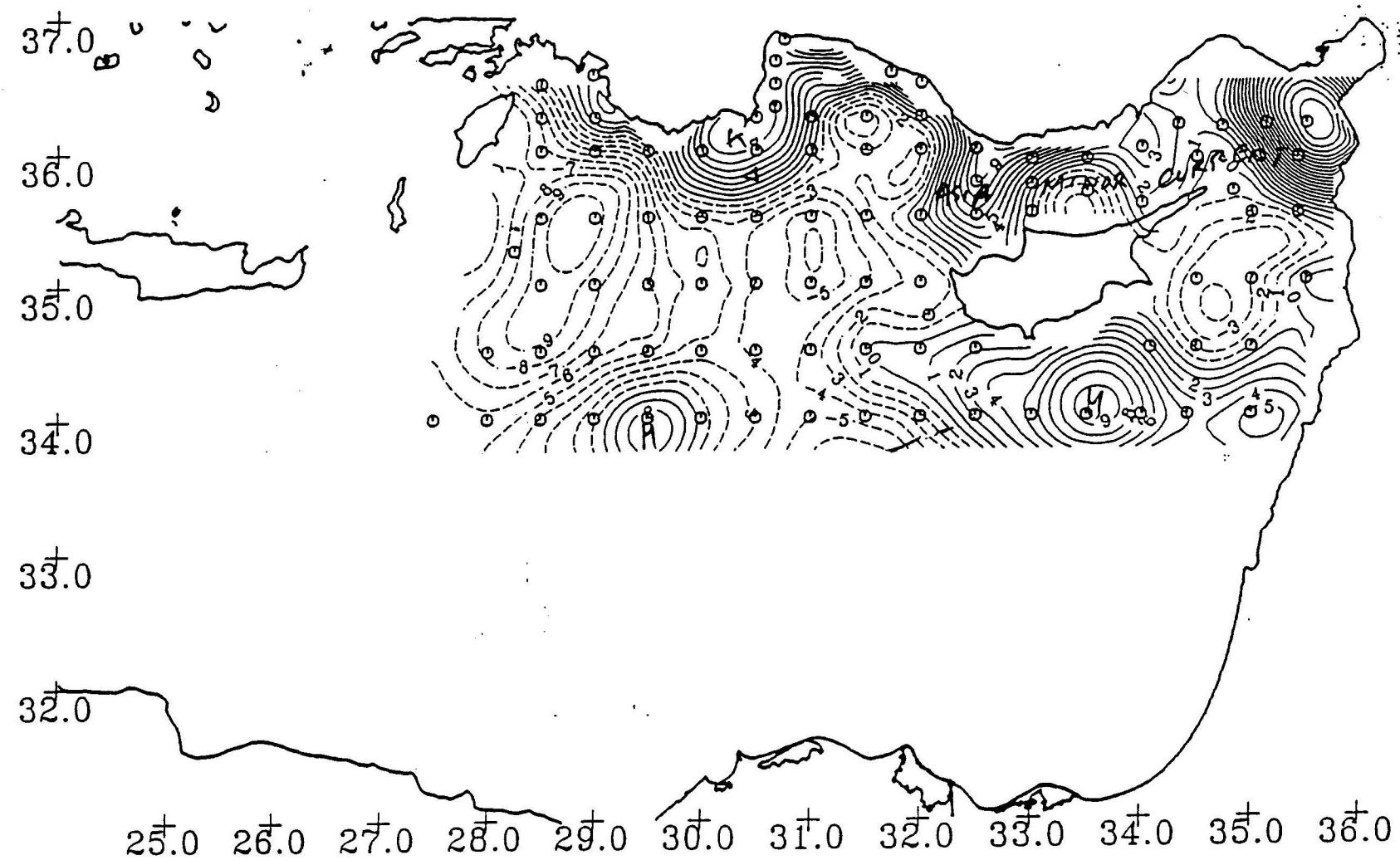


FIG 8

OCT 88 BILIM

surface analysis

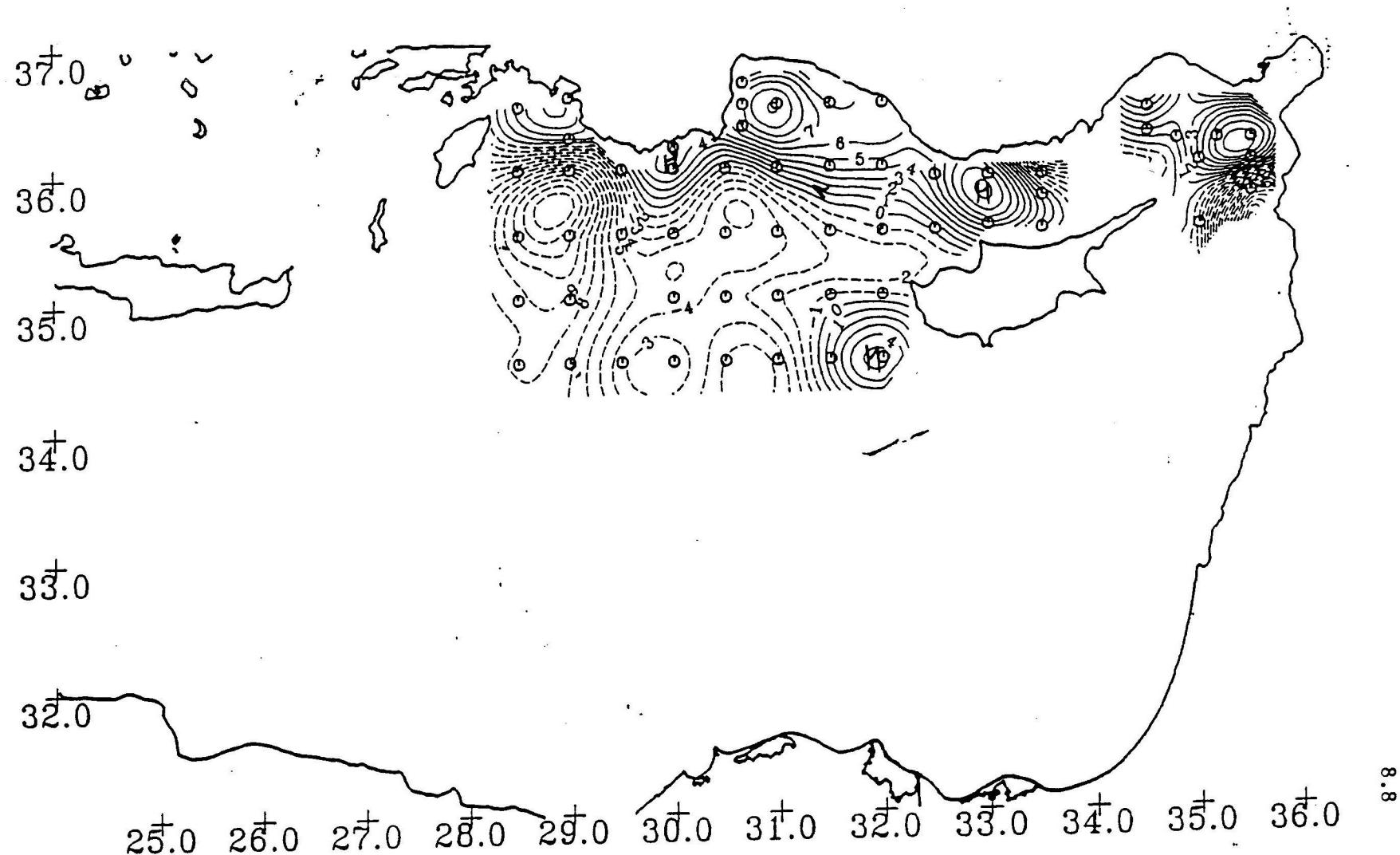
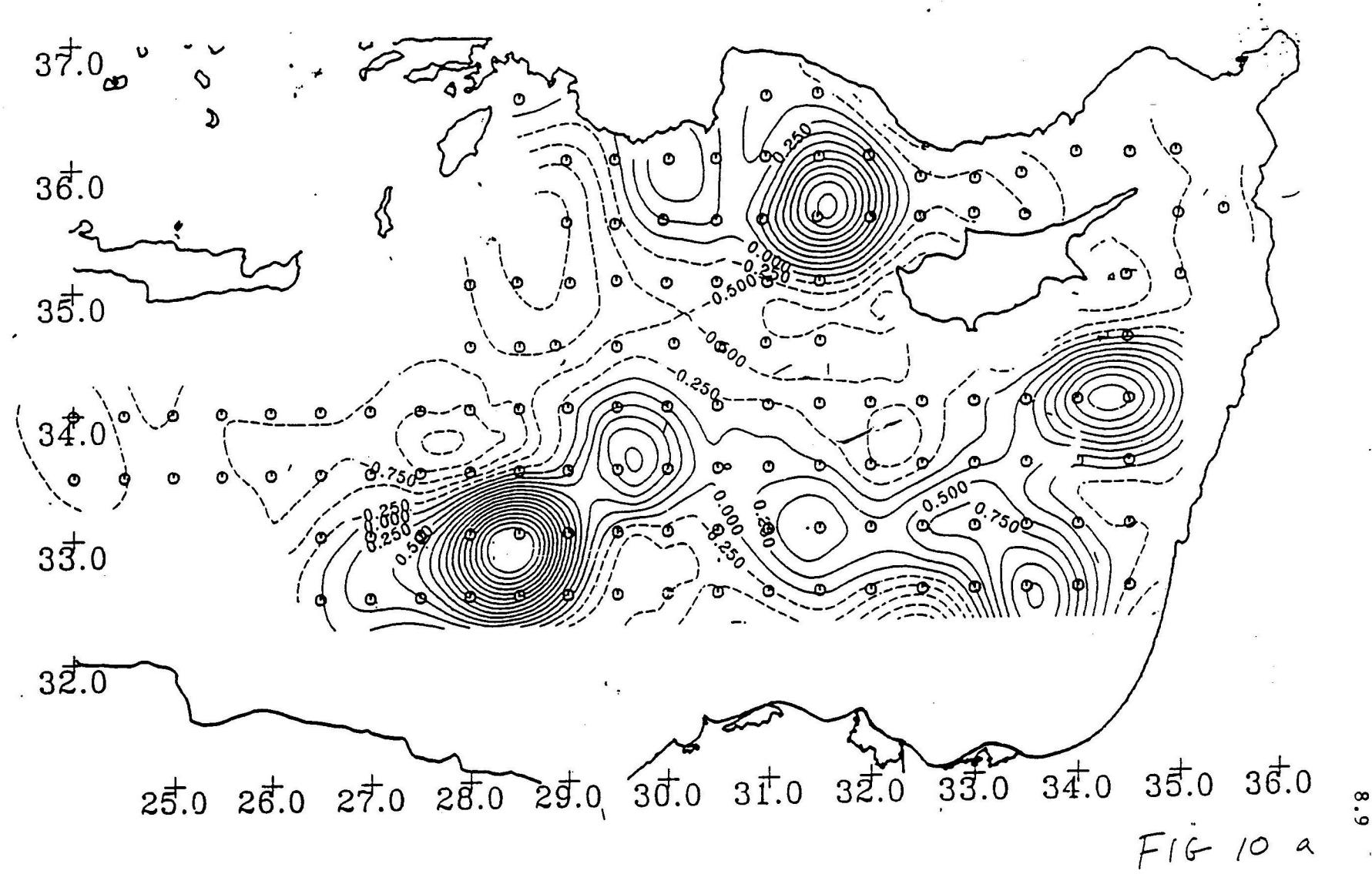


FIG 9

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300 m analysis



MAR-APR 86 BILIM & SHIKMONA

300 m analysis

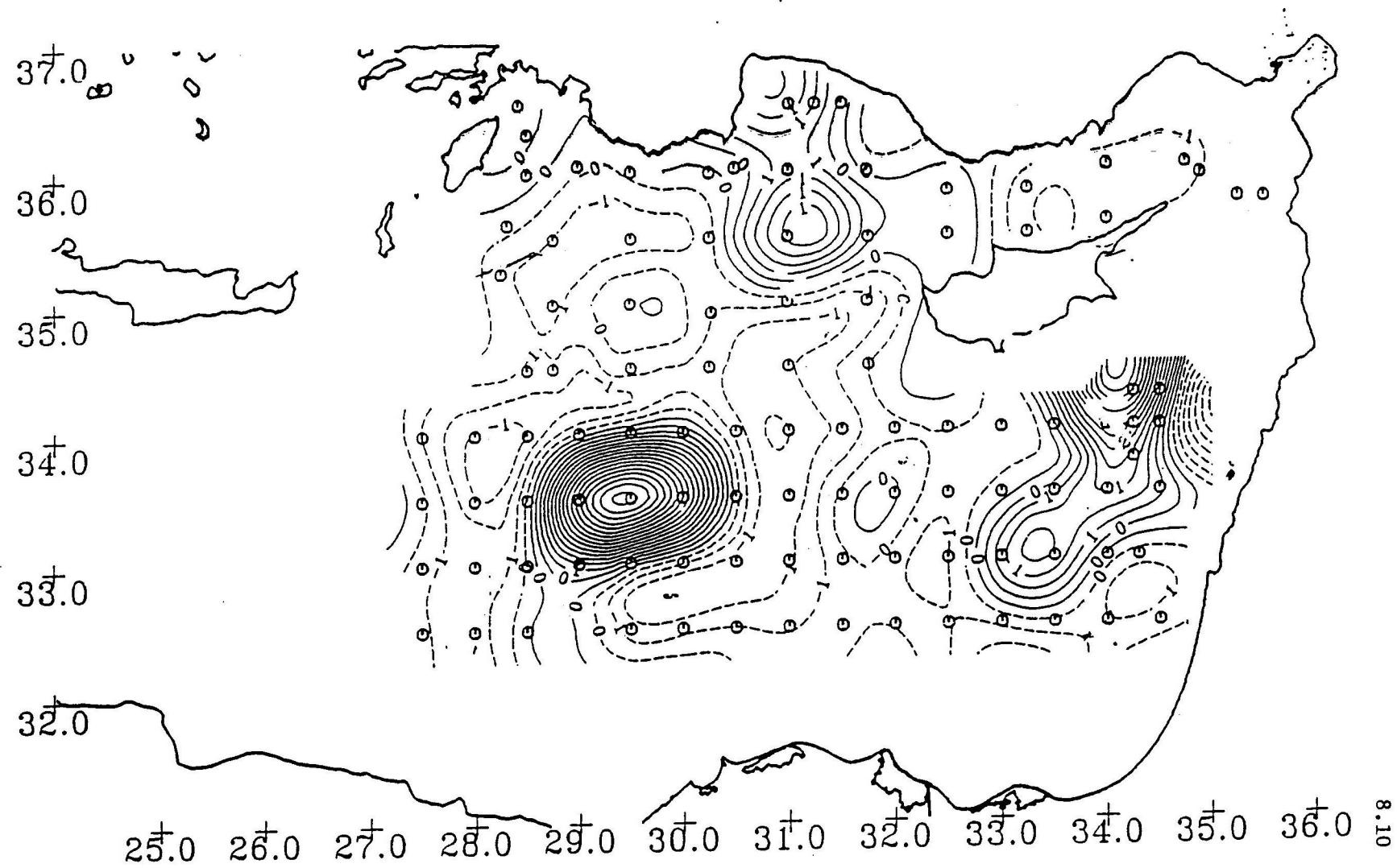


FIG 10b

JUN 86 BILIM

300 m analysis

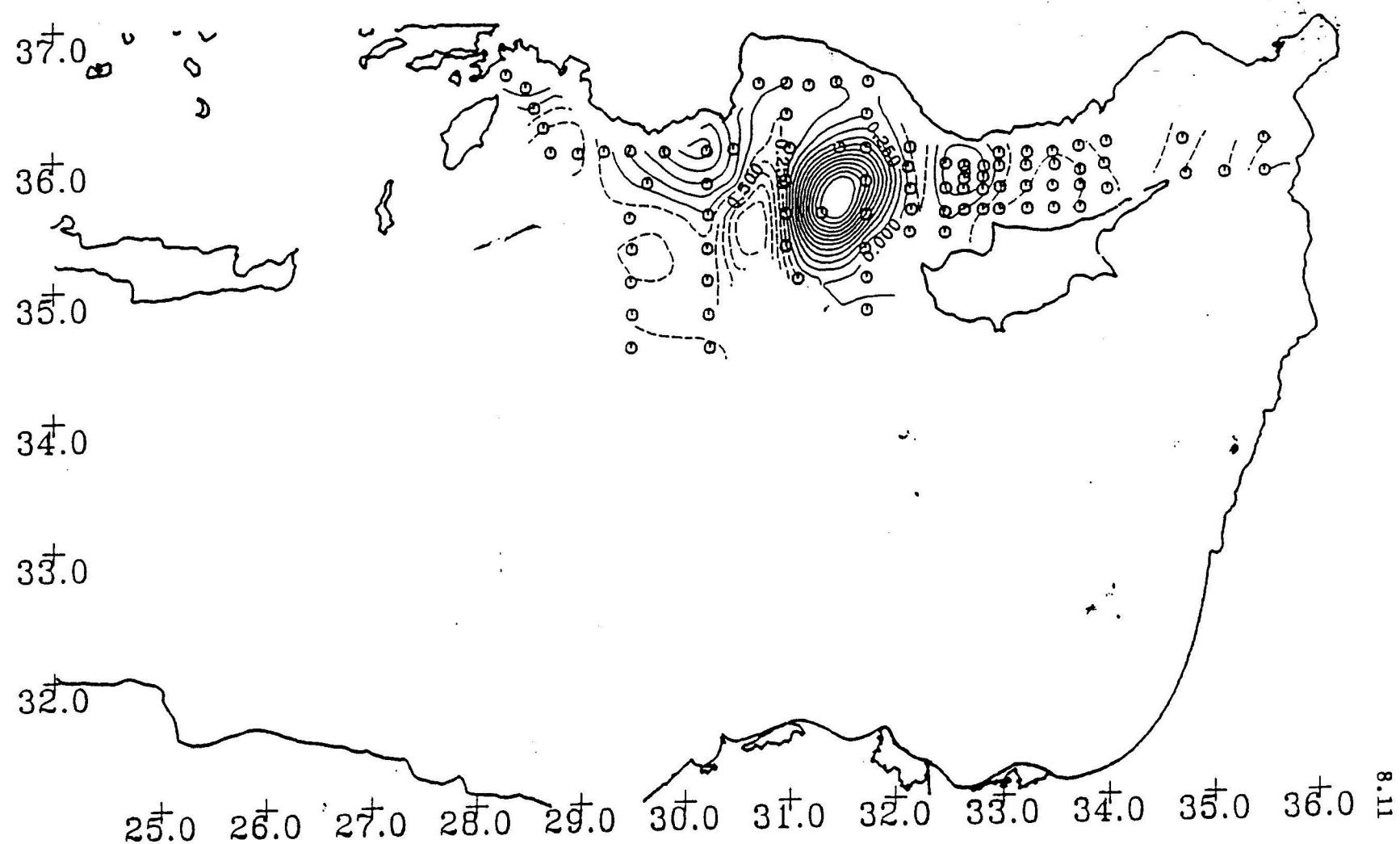
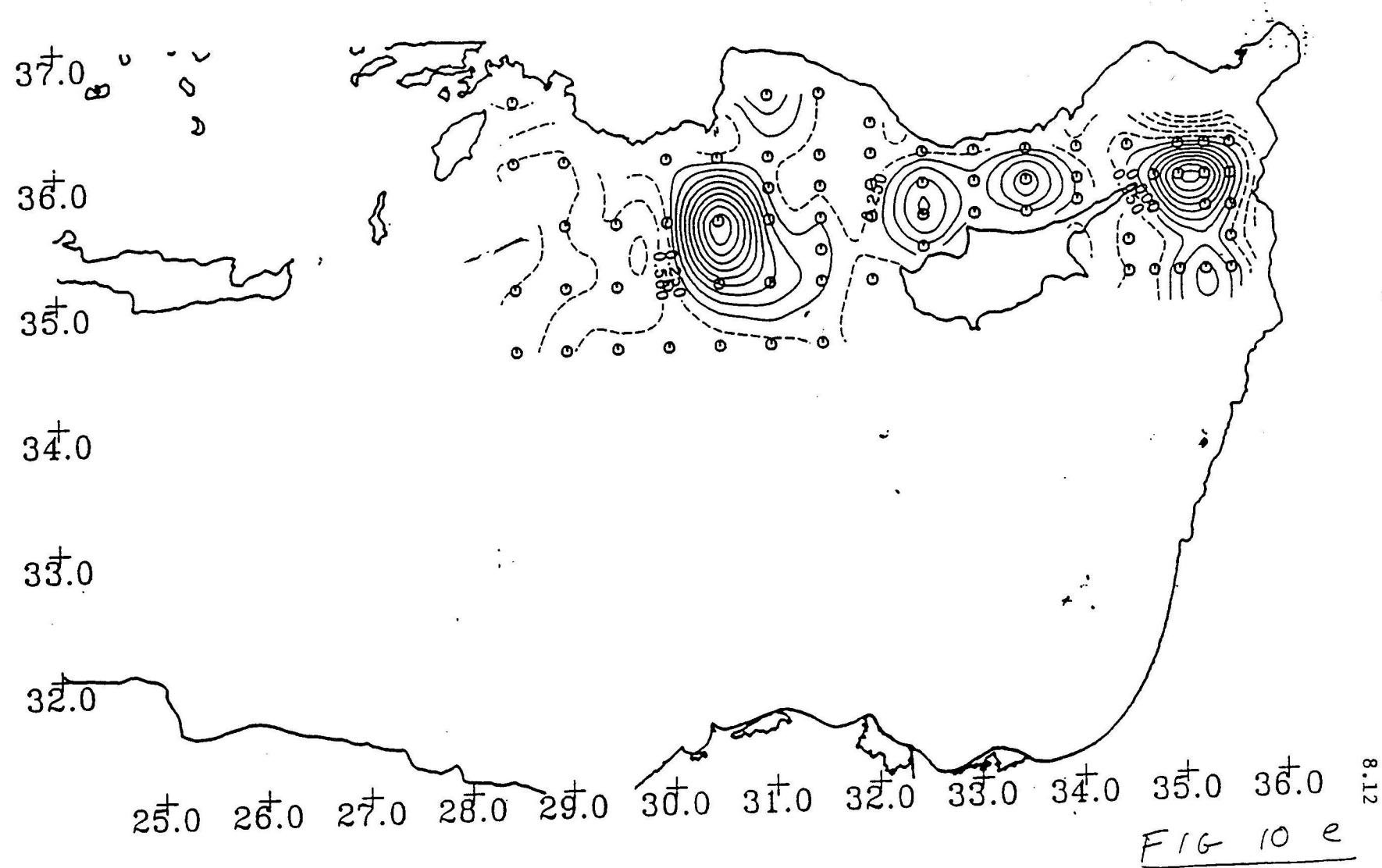


FIG 10 C

JUN 87 BILIM

300 m analysis



AUG-SEP 87 BILIM & SHIKMONA

300 m analysis

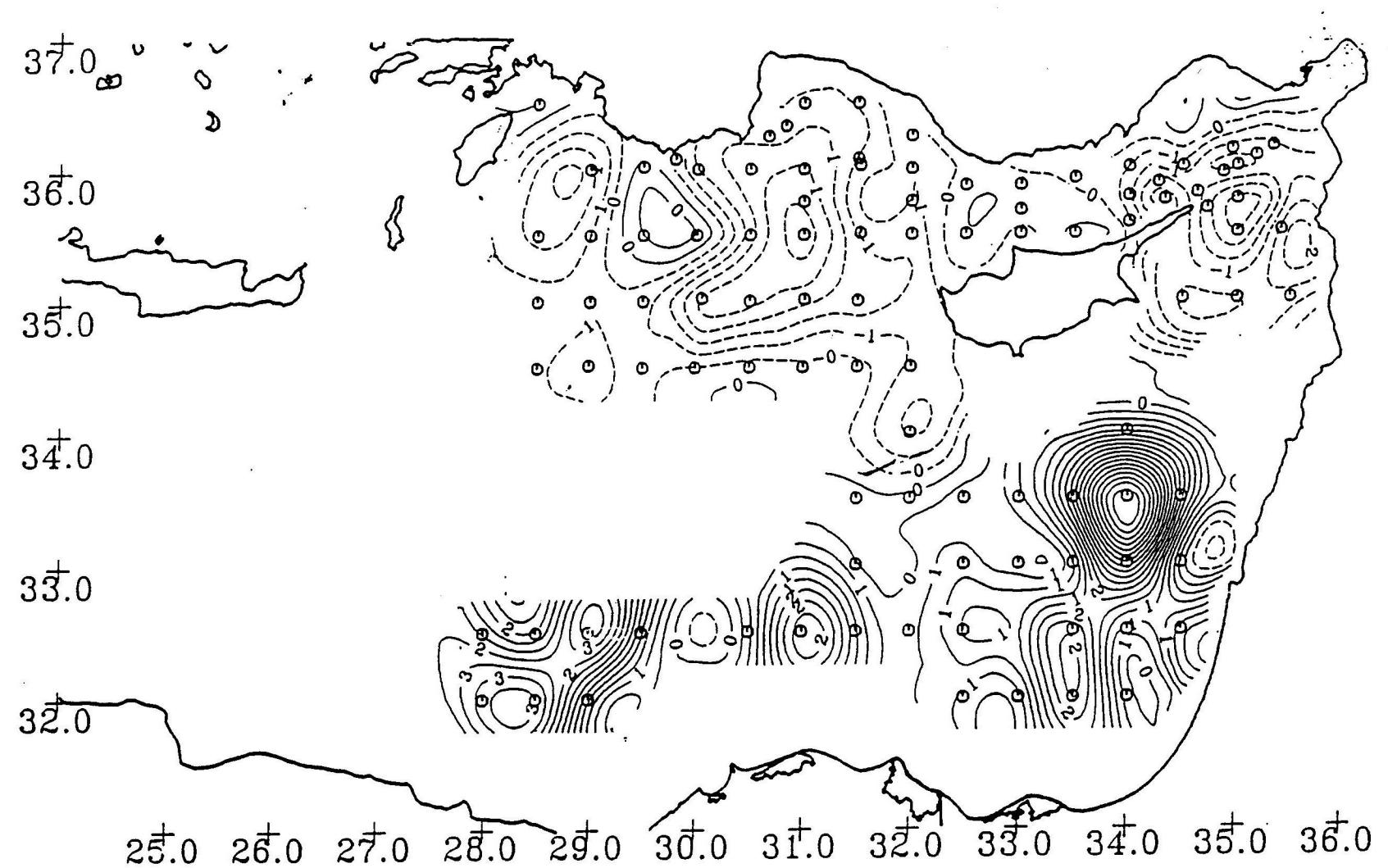
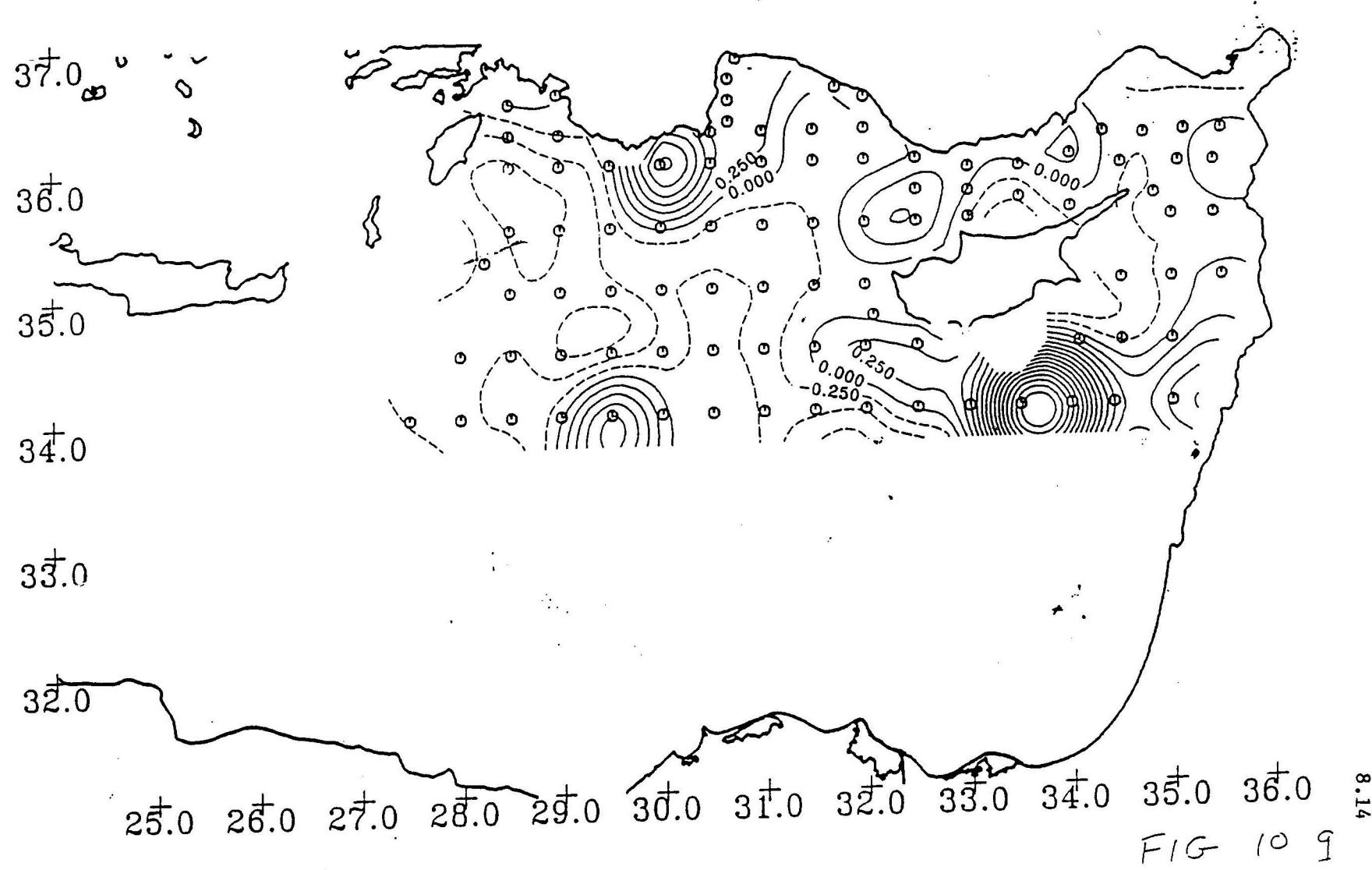
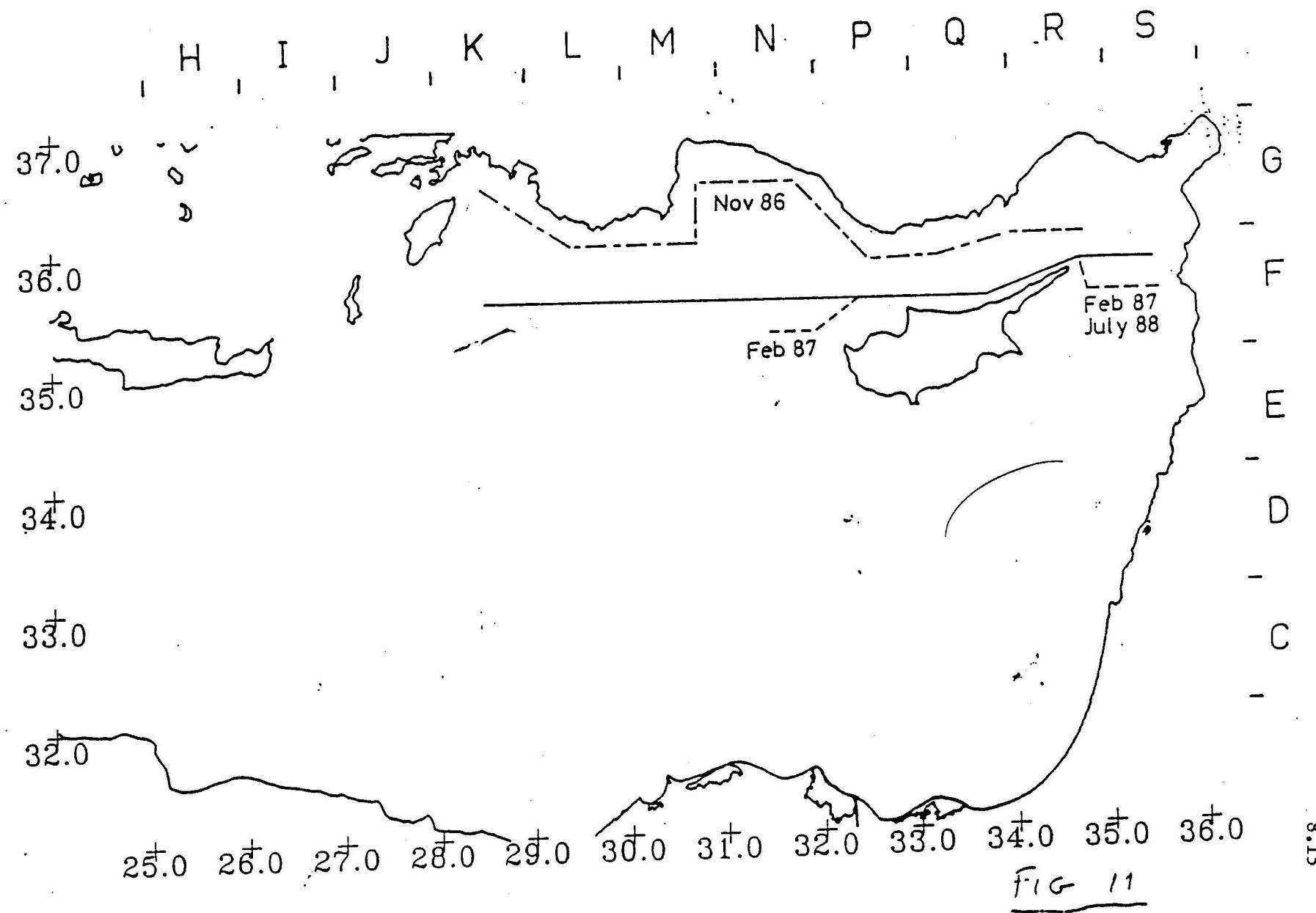


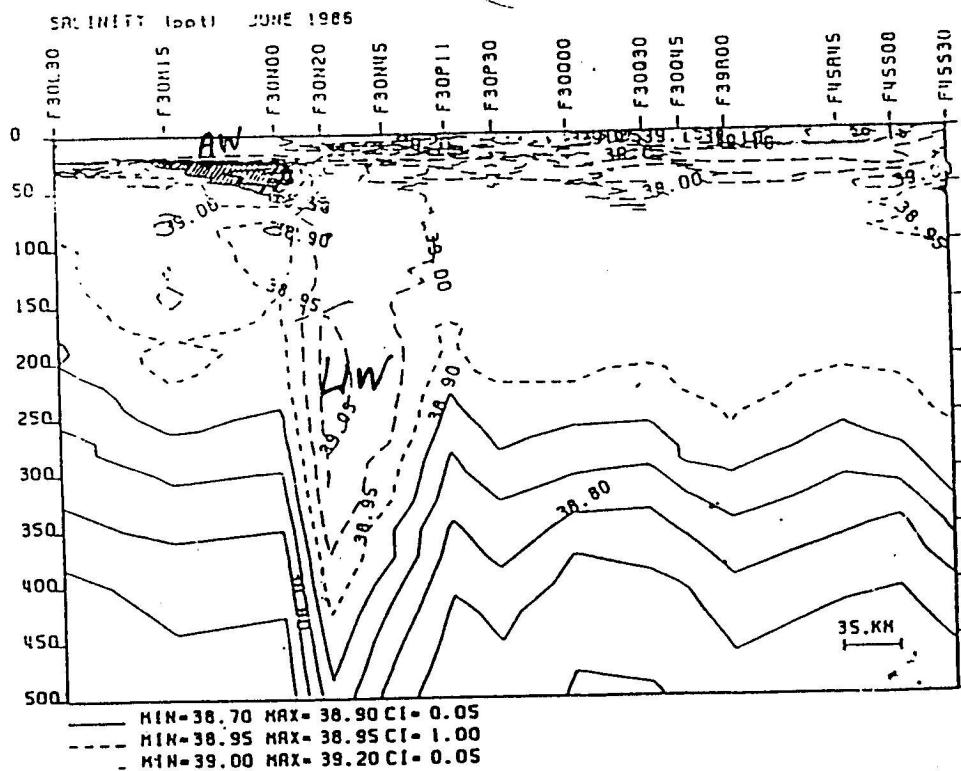
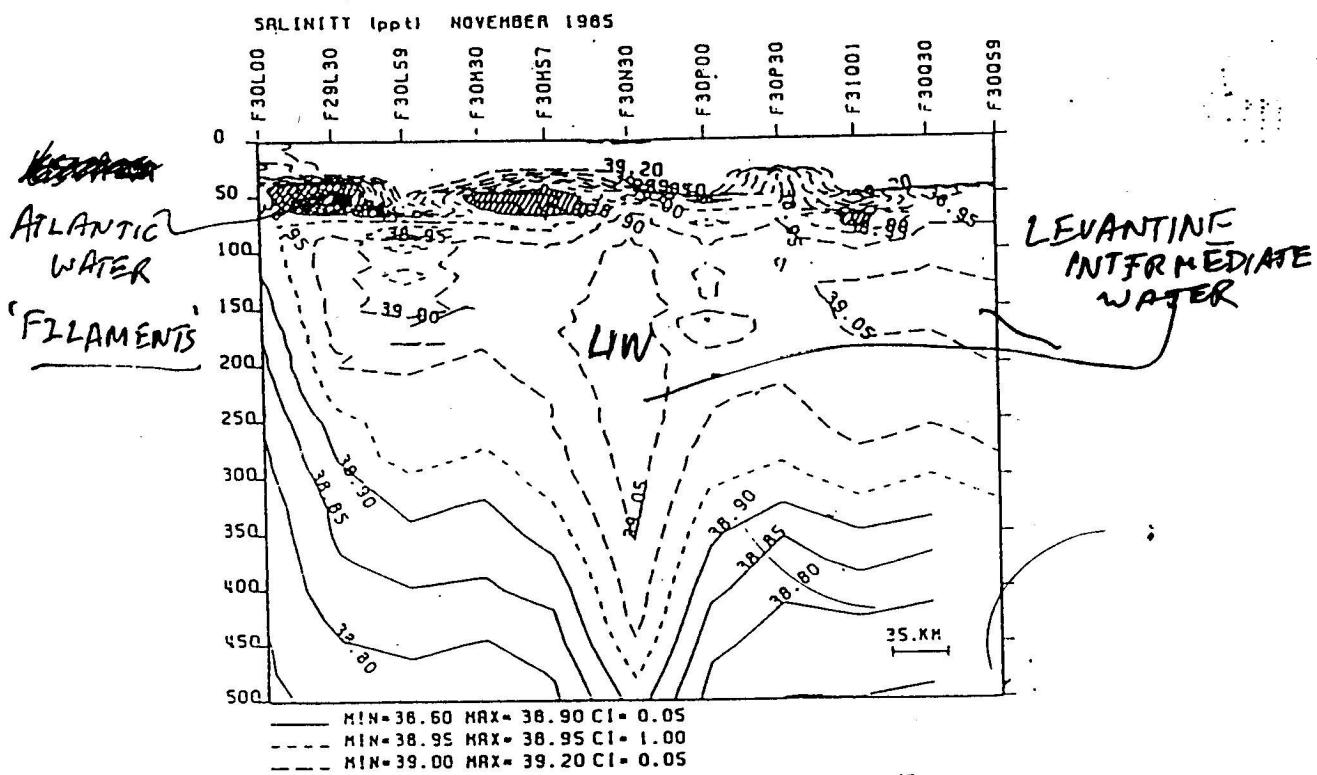
FIG. 10 f⁸
13

JUL 88 BILIM

300 m analysis







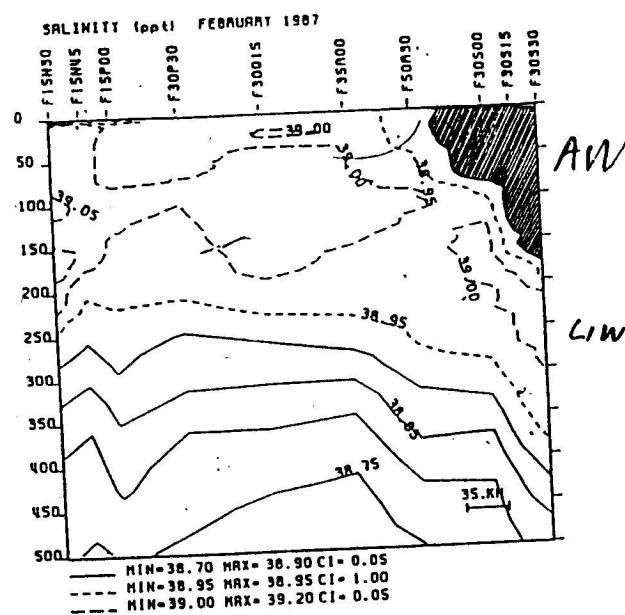


FIG 12e

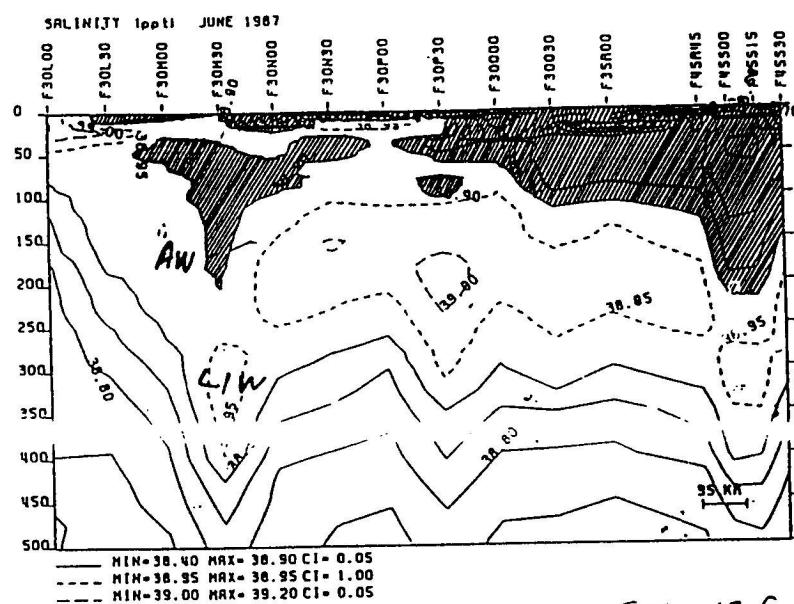


FIG 12f

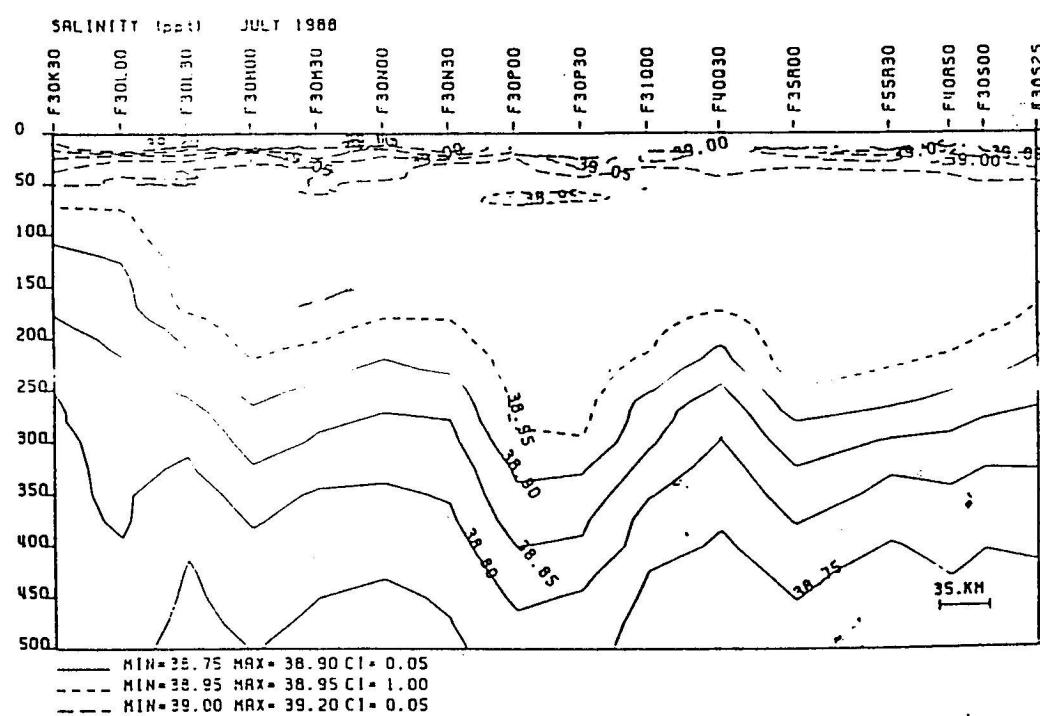
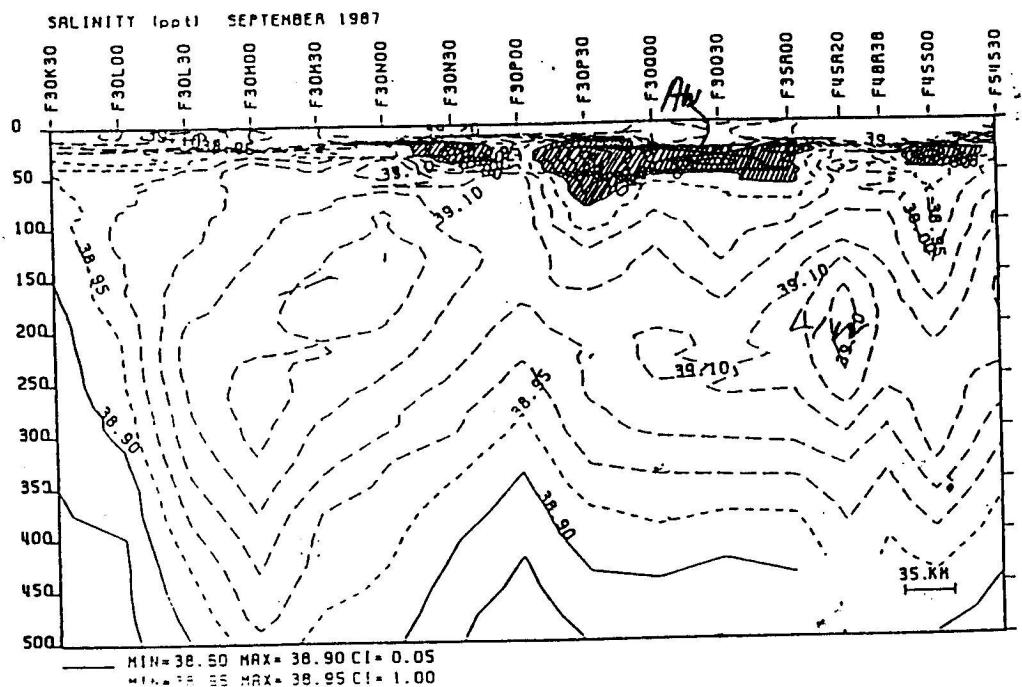


FIG 12 h

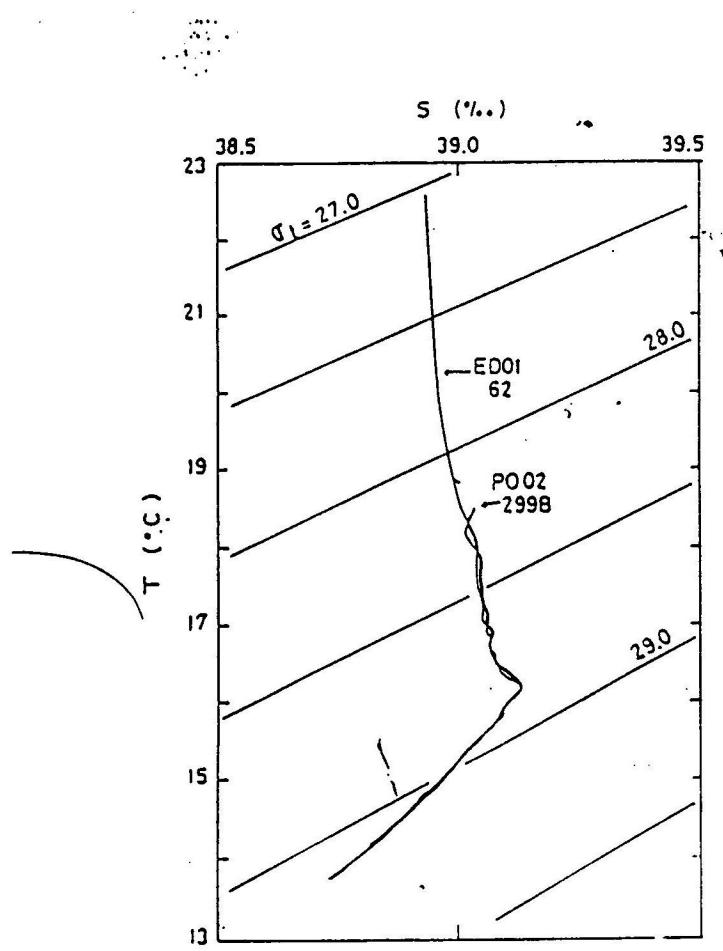


FIG 1 a

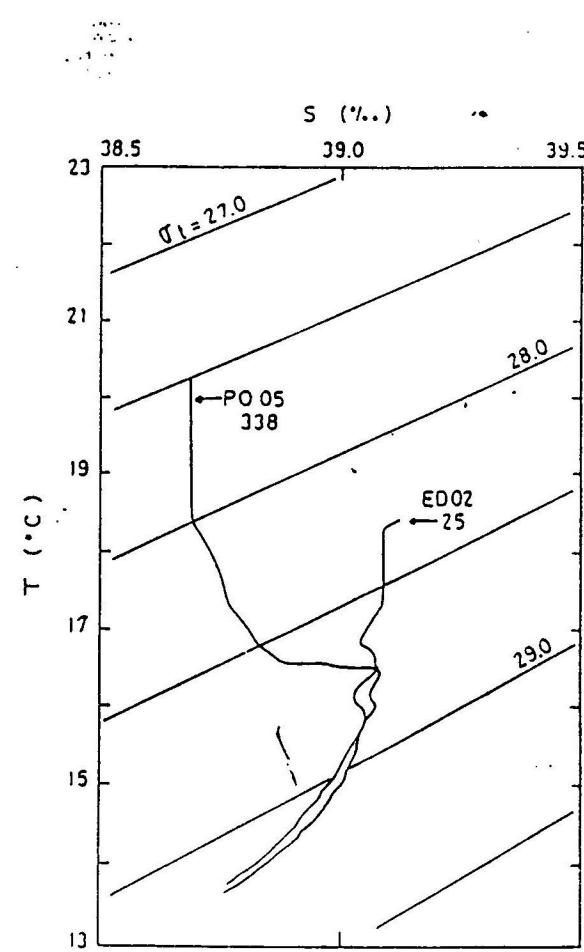


FIG 13 b

31652
1987
1990
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27 August — 1 September 1990

