PLATE 35 - Attached to: Memorie Descrittive della Carta Geologica d'Italia VOL. LXII

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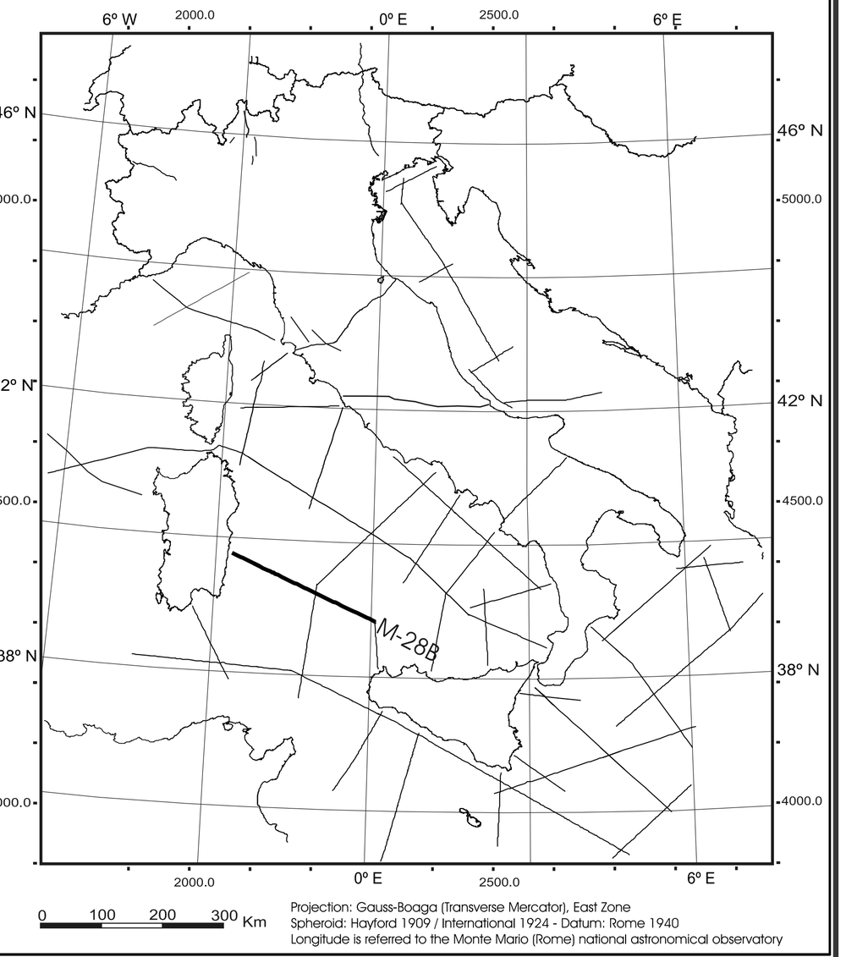
CROP ATLAS

SEISMIC REFLECTION PROFILES OF THE ITALIAN CRUST

LINE : M-28B

LOCATION MAP



Projection: Gauss-Boaga (Transverse Mercator), East Zone
Spheroid: Hayford 1909 / International 1924 - Datum: Rome 1940
Longitude is referred to the Monte Mario (Rome) national astronomical observatory

SCALES:
HORIZONTAL 1: 200,000
VERTICAL 2.5 CM - 1 SEC
0 1 2 3 4 5 KM

DATUM PLANE : SEA LEVEL

RECORDING DATA

RECORDING DATE: 1994

RECORDING PARAMETERS

CONTRACTOR .... O.G.S.
VESSEL .... OGS EXPLORA
SYSTEM .... SN 358-DMX
RECORD LENGHT .... 17000 MS
FILTER L.C. .... OUT
H.C. .... 77 HZ 70 DB/OCT
SAMPLING INTERVAL .... 4 MS
COVERAGE .... 45 FOLD

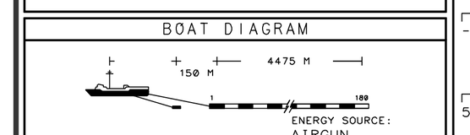
SOURCE

ENERGY SOURCE .... AIRGUN
AVG. SOURCE DEPTH .... 7 M
SHOT INTERVAL .... 50 M
TOTAL VOLUME .... 4906 CU INC
N.OF SUBARRAYS 9
N.GUNS FOR SUBARRAY 8

CABLE

SINGLE
STREAMER .... 4500 M
N.OF GROUPS 180
HYDROPHONES FOR GROUP 32
GROUP INTERVAL .... 25 M
AVG.CABLE DEPTH .... 12 M

BOAT DIAGRAM



LEGEND

▼ INTERSECTION

COMMENTS

POLARITY CONVENTION

RECORDING : COMPRESSION NEG. NUMBER
PROCESSING : COMPRESSION NEG. NUMBER
DISPLAY : COMPRESSION PULSE TROUGH

PLAYBACK

-1 TRACES EVERY 4 IS PLOTTED
-PRESENTATION .... VA
-RMS TRACE EQUALIZATION

Data processed by: **ISMES**

Cgm file generated by: **ENI-AGIP DIVISION**

PROCESSING SEQUENCE

PROCESSING DATE: 1994

REFORMAT

-SEGD TO PHOENIX VECTOR CONVERSION

RESAMPLING

-TIME SAMPLING TO 8 MS

TIME BREAK CORRECTION

-10 MS PULL UP DUE TO AIRGUN DELAY

GEOMETRY UPDATE

PREFILTER

3/24 - OUT HZ/DB

AMPLITUDE RECOVERY

-SPHERICAL DIVERGENCE CORRECTION BY 7 VELOCITY FUNCTION REFERRED TO SEABOTTOM DEPTH

PHASE CORRECTION

-INSTRUMENT RESPONSE TO MINIMUM PHASE

ADJACENT TRACE SUM

-APPLIED ON SHOT DOMAIN WITH CHANNELS REDUCTION TO 90 TRACES AFTER PARTIAL NMO

ARRAY SIMULATION

5 TRACE MIXED WEIGHTS 15-50-100-50-15%

DECONVOLUTION

-TYPE: PREDICTIVE MIN.PHASE INV.FILTER
4 WND OP 48-300 MS WN 1%

PRELIMINARY VELOCIY ANALYSIS

-INTEGRATED VELOCITY DISPLAY
-ANALYSIS LOCATION EVERY 15 KM

W. B. MULTIPLE ATTENUATION

-FK FILTER APPROACH IN CDP DOMAIN (PRIMARY EVENTS OVERCORRECTED)

FINAL VELOCITY ANALYSIS

-INTEGRATED VELOCITY DISPLAY (15 VELOCITIES TESTED ON 20 STACK-CDP AND ON CENTREAL UNSTACKED GATHER. CORRELATION PLOT)
-ANALYSIS LOCATION EVERY 5 KM

NMO / STACK 4500%

-CDF ORDERED DATA NMO CORRECTED WITH FINAL VELOCITIES
-OUTSIDE MUTE APPLIED TO REMOVE STRETCHED DATA AND REFRACTED SIGNALS
-INSIDE MUTE (1200 M) STARTING ABOVE FIRST WATER BOTTOM MULTIPLE

TIME VARIANT FILTER

WATER BOTTOM 2-3-32-40 HZ TRAPEZOIDAL
TIME 1 1-3-20-29 HZ TRAPEZOIDAL
TIME 2 1-3-15-20 HZ TRAPEZOIDAL

time 1 & 2 dependent on water bottom multiples period

MARINE STATICS

13 MS CABLE AND GUN CORRECTION