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CROP

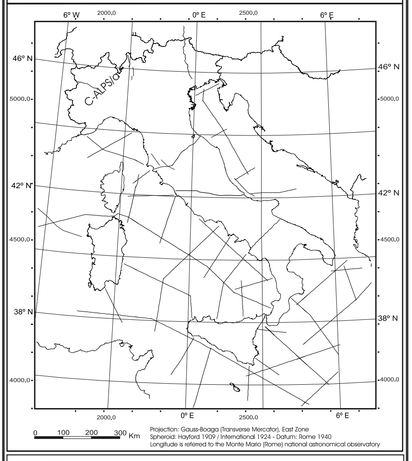
CNR Eni Enel

CROP ATLAS

SEISMIC REFLECTION PROFILES OF THE ITALIAN CRUST

CROP C-ALPS/a

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: 100,000
VERTICAL 2.5 CM - 1 SEC

0 1 2 3 4 KM

DATUM PLANE : 500 m.

RECORDING DATA

RECORDING DATE: 1988

RECORDING PARAMETERS

CONTRACTOR.....OGS
INSTRUMENT.....SERCEL-368
RECORD LENGTH.....45 SEC
FILTER L.C.....OUT
H.C.....62.5 HZ 72 DB/OCT
NOTCH.....OUT
SAMPLING INTERVAL.....4 MSEC
COVERAGE.....100 %
DATUM PLANE.....500 M

SOURCE

ENERGY SOURCE.....EXPLOSIVE
SOURCE PATTERN.....SINGLE HOLE
SOURCE DEPTH.....50 M
CHARGE SIZE.....100-140 KG

SPREAD

TYPE.....SPLIT
SPREAD.....7400-280-0-280-7400 M
NO. OF GROUPS.....120
GEOPHONES PER GROUP.....24
PATTERN CONFIG.....N LINE
GROUP INTERVAL.....80 M
GEOPHONE TYPE.....SM4 - 10 HZ

LEGEND

▼ INTERSECTION

COMMENTS

POLARITY CONVENTION

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

PLAYBACK

-1 TRACES EVERY 2 IS PLOTTED
-PRESENTATION ..... VA
-RMS TRACE EQUALIZATION

Data processed by: **OGS**

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

PROCESSING SEQUENCE

PROCESSING DATE: 1990

DEMULTIPLEX
TO SEGY 32 BIT FLOATING POINT

GAIN RECOVERY
FIELD GAIN REMOVAL

RESAMPLING
TO 8 MS WITH 42 HZ ANTI-ALIAS FILTER

AMPLITUDE RECOVERY
USING GAIN CURVE DB: 1.0 T+40LOG(10)T

TRACE BALANCE
DYNAMIC TRACE EQUALIZATION USING VARIABLE WINDOW

GATHER
CROOKED-LINE PROCESSING USING 40 X 2400 M BINS
REARRANGE TRACES IN DEPTH POINT ORDER

STATIC CORRECTIONS
DEVIATION FROM MEAN POINT STATIC SUBWEATHERING VELOCITY 5500 M/S

PULSE SHAPING
CONVERSION TO MINIMUM PHASE

BEAM STEERING
NMO AND STATIC CORRECTED WEIGHTED TRACE MIX

DECONVOLUTION
-TYPE: PREDICTIVE MIN.PHASE INV.FILTER
-OPERATOR LENGHT.....256 M
-PREDICTION DISTANCE.....32 MS
-WHITE NOISE.....2%

SCALING
SCALING ON THE WHOLE TRACE

NMO CORRECTIONS
DERIVE FROM CVS

TRACE SUPPRESION
DERIVED FROM RAW RECORDS AND MUTE SCANS

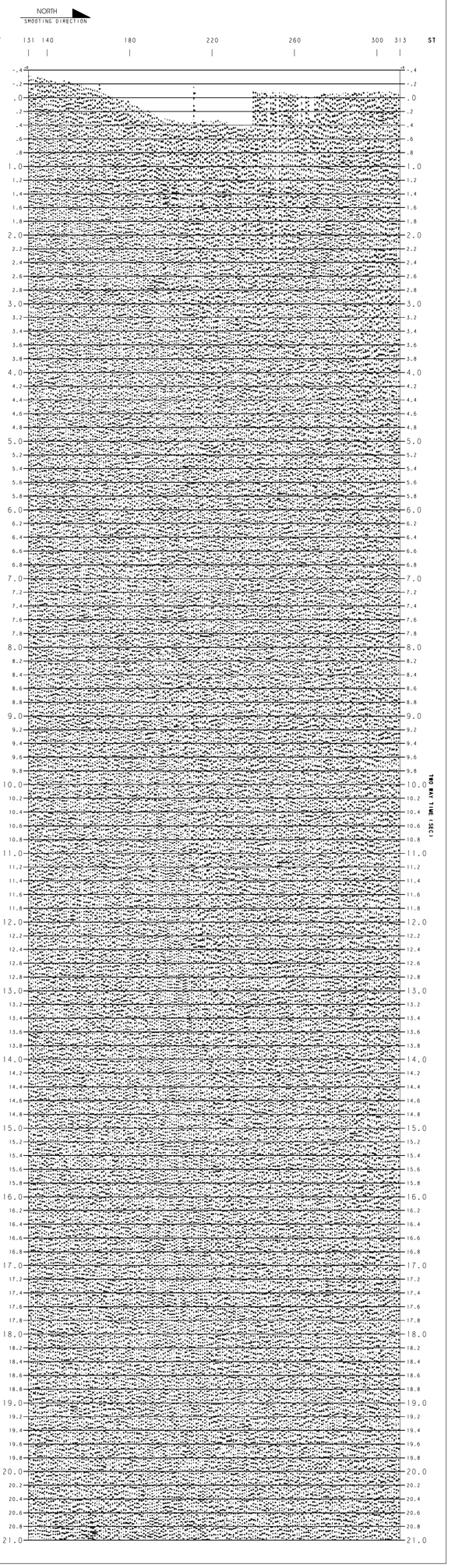
STATCOR
SURFACE CONSISTENT RESIDUAL STATICS

STACK 100%

SPECTRAL BALANCING
AMPLITUDE SPECTRUM EQUALIZATION

T.V.FILTER

APPLICATION OF 200 MS ZERO PHASE BPF

TIME(MS)	-34DB	0DB	0DB	-34DB
0	6HZ	12HZ	35HZ	50HZ
5000	6	10	30	45
12500	6	10	25	40
25000	6	10	25	35

BALANCE
TRACE EQUALIZATION USING 3000 MS