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CROP

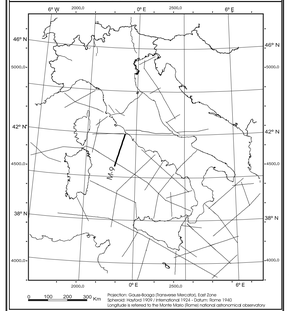
CNR Eni Enel

CROP ATLAS

SEISMIC REFLECTION PROFILES OF THE ITALIAN CRUST

LINE : M-9

LOCATION MAP



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: 1991

[RECORDING PARAMETERS]

CONTRACTOR	OGS - OGS/I
VESSEL	M/V SIMINA
RECORD LENGHT	17000 MS
FILTER L-C	77 HZ / 10 DB/OCT
SAMPLING INTERVAL	4 MS
COVERAGE	45 FOLD

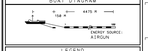
[SOURCE]

ENERGY SOURCE	AIRGUN
ASS. SOURCE DEPTH	9 M
SHOT INTERVAL	50 M
NR. OF GUNS PER SUBARRAY	1
TOTAL VOLUME	4906 CU INC

[CABLE]

SINGLE STREAMER	4500 M
NUM. GROUPS	180
NUM. TRACES FOR GROUP	1
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 V6
-RMS TRACE EQUALIZATION

Data processed by: **ISMES-OGS**

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

PROCESSING SEQUENCE

PROCESSING BY OGS SP 100 - 2258

[REFORMAT]
-SEGD TO XSS FLOATING POINT

[RESAMPLING]
-TIME SAMPLING TO 8 MS

[GEOMETRY UPDATE]

[TRACE SUM]
-SUM OF TWO ADJACENT TRACES WITH APPLICATION OF DIFFERENTIAL MOVE

[DECONVOLUTION - BROADBAND]
-USING THE FOLLOWING SYNTHETIC DATA:
gain DB: 1.00 X T - 1.5x20Log(1)X1T

[DECONVOLUTION - SHOT]
-TYPE: PREDICTIVE OPERATOR INV / FILTER OP 32 288 MS WN 5%

[MULTIPLE ATTENUATION]
-APPLICATION OF RADON FILTER IN CDP VELOCITIES COMPUTED FOR MULTIPLE

[TIME VARIANT FILTER]
-TIME VARYING SPECTRAL BALANCING FILTER APPLIED IN THE COMMON SHOT DOMAIN

[VELOCITIES ANALYSIS]
-USING CONSTANT VELOCITY STACKS (CVS)
-AVERAGE VELOCITY GRADIENT
-AVERAGE VELOCITIES OF 2.5 KM
-VELOCITIES PICKED EVERY 2.5 KM
-VELOCITIES SMOOTHED ALONG THE HISTORY OF THE VELOCITY FUNCTION

[NMO / STACK]
-CDP ORDERED DATA NMO CORRECTED
-MUTING OF STRETCH
-APPLICATION OF A NEAR TO FAR TRACE LINEAR DIFFERENTIAL WEIGHTING

[F-K FILTER]
-APPLICATION OF A FAN FILTER ATTENUATING DIPS SMOOTHLY FROM A VALUE TO ZERO OF THEIR ORIGINAL AMPLITUDE

[TRACE MIX]
-APPLICATION OF TIME VARYING 3 TRACE MIX FILTER TO REDUCE RANDOM / DIPPING NOISE

[TIME VARIANT FILTER]
288 HZ ZERO PHASE BANDPASS FILTER AUTOMATICALLY APPLIED TO FOLLOWING TIME GATES:

0	4	6	45	55
4	6	8	40	50
6	8	10	35	45
8	10	12	30	40
10	12	14	25	35
12	14	16	20	30
14	16	18	15	25

PROCESSING BY ISMES SP 2258 / 3632

[REFORMAT]
-SEGD TO PROCESSING FORMAT CONVERSION

[RESAMPLING]
-TIME SAMPLING TO 8 MS

[SOURCE SIGNATURE CORRECTION]
-18 MS PULL UP DUE TO AIRGUN DELAY

[GEOMETRY UPDATE]

[PREFILTER]
-NMO @ 17.8 SEC 3/24 - OUT HZ/DB

[TRACE BALANCE]
-COMPUTATION WINDOW 7800-12888 MS

[SPHERICAL DIVERGENCE]
-SPHERICAL DIVERGENCE

[F-K FILTER]
-IN SHOT DOMAIN, 8/16 NOTE PASS

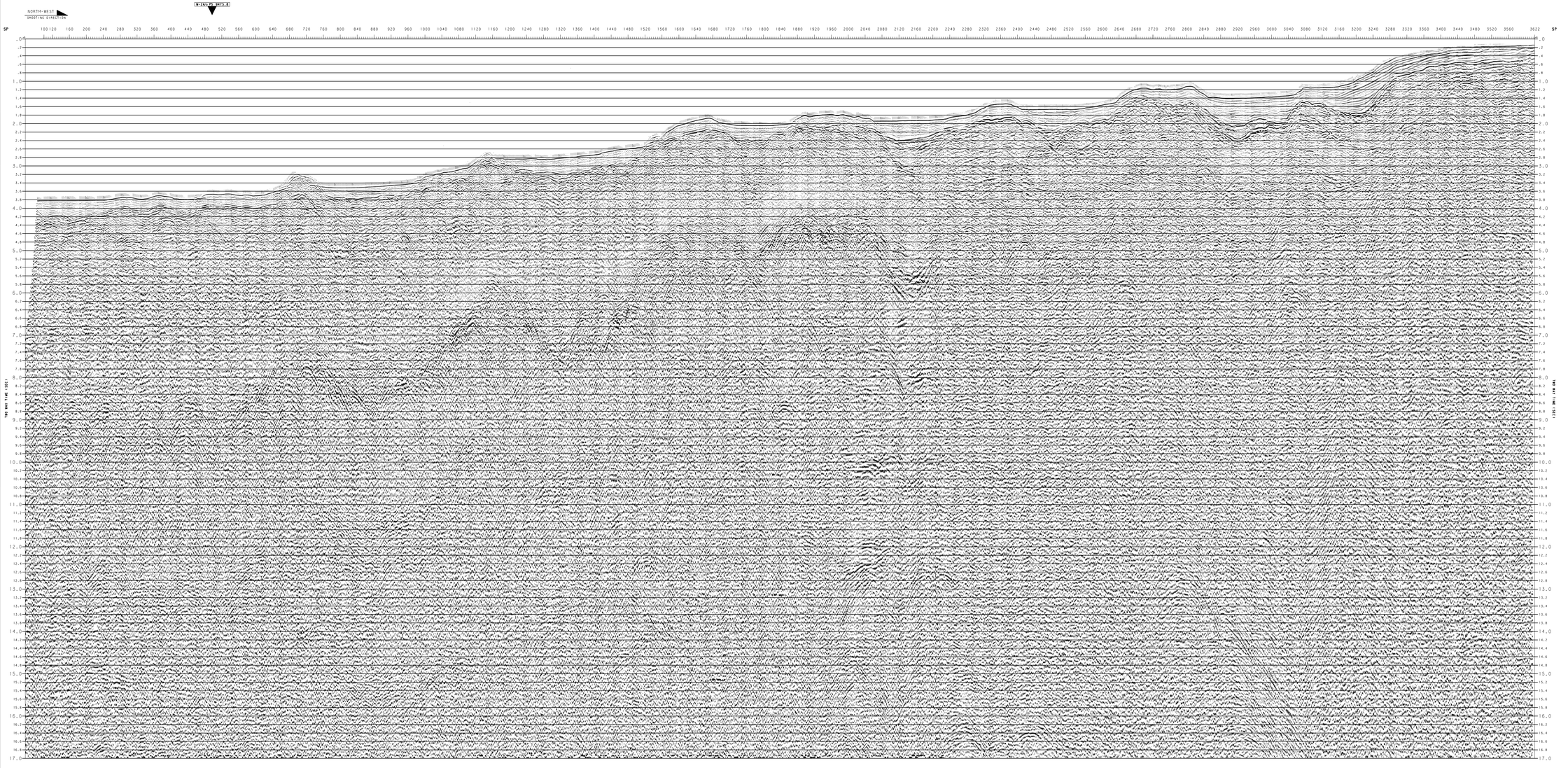
[DECONVOLUTION]
-TYPE: PREDICTIVE OPERATOR INV / FILTER # WN OP 48 256 MS WN 1%

[WATER BOTTOM MULTIPLE VELOCITY ANALYSIS]
-CVS DISPLAY FOCUSING OF WATER BOTTOM MULTIPLE VELOCITY FUNCTIONS

[WATER BOTTOM MULTIPLE ATTENUATION]
-KARHUNEN LOEVE FILTERING ON MULTIPLE VELOCITY FUNCTIONS
-NMO REMOVAL AFTER FILTERING

[VELOCITY ANALYSIS]
-CONSTANT VELOCITY STACK, 28 CDP X GATHER OF CONSTANT VELOCITY
-VELOCITY RANGE: 1400-6000
-NUMBER OF VELOCITIES TESTED: 48

[NMO / STACK]
-CDP ORDERED DATA NMO CORRECTED WITH ITERATIVELY FINAL VELOCITIES
-MUTING OF STRETCH
-APPLICATION OF A NEAR TO FAR TRACE LINEAR DIFFERENTIAL WEIGHTING SIGNALS (SYNTHETIC DATA AND REFLECTED SIGNALS ABOVE FIRST WATER BOTTOM MULTIPLE

[TIME VARIANT FILTER]
ABOVE FIRST WB MULTIPLE 1-2-15-25 HZ
BELOW FIRST WB MULTIPLE 1-2-15-25 HZ

[MIGRATION STRETCH]
-14 MS CABLE AND SUR CORRECTION