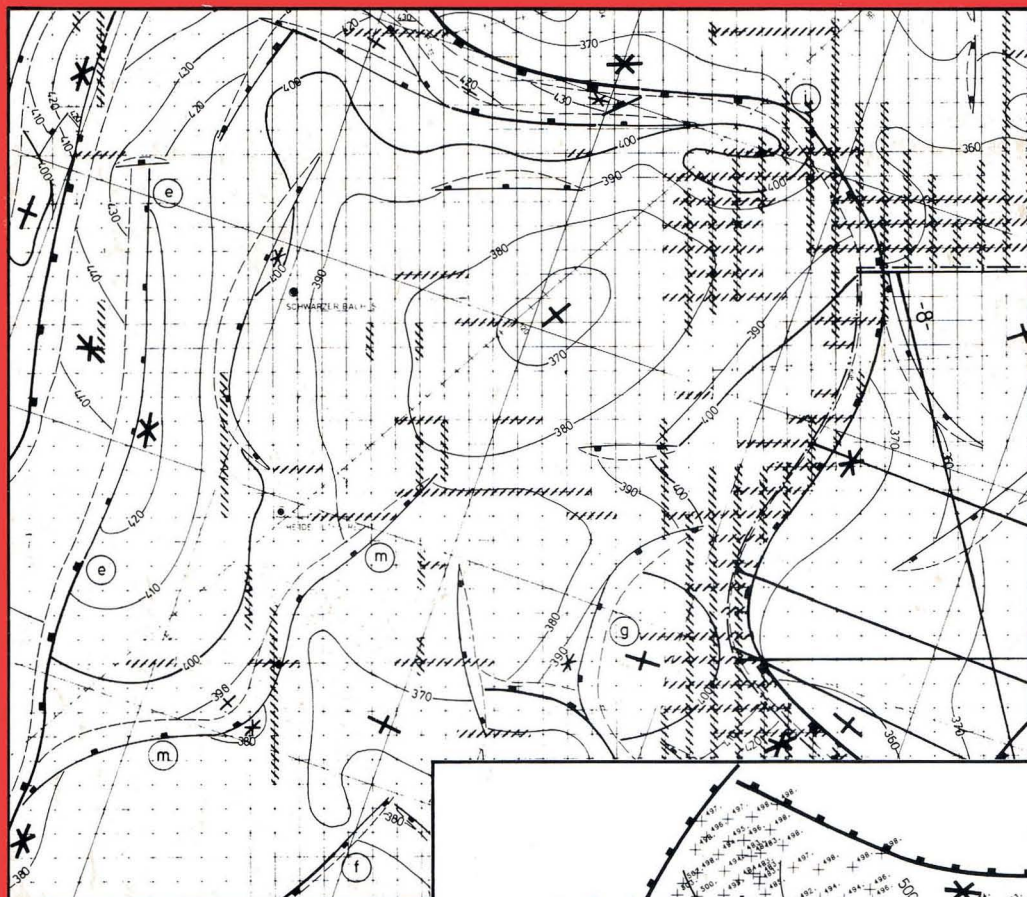
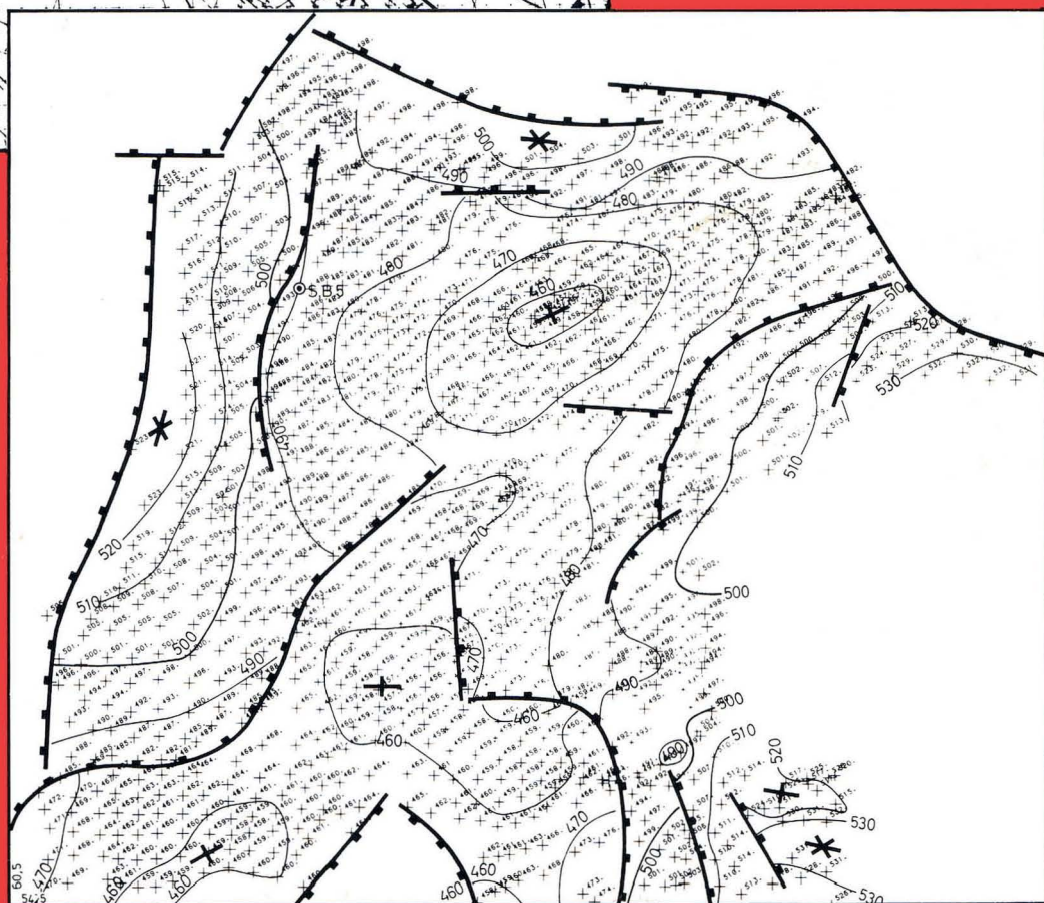


Migration of Reflection-time Maps



Time Contour Map (unmigrated)



Depth Contour Map (migrated)

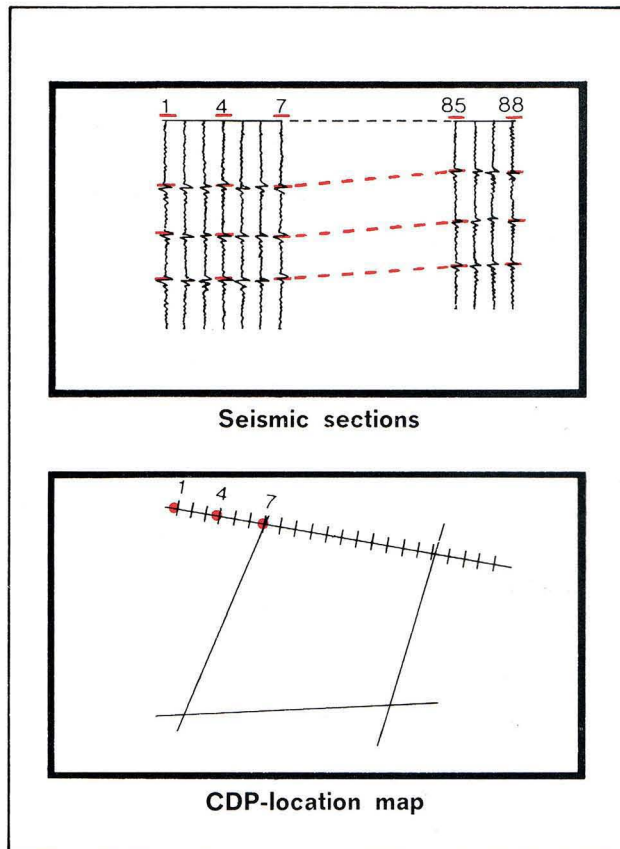
The program flow chart

shows the various possibilities for input of reflection times and velocities, data processing and output of results. The program is based on the ray tracing method.

Input

Data digitization

Velocity distribution



reflection times

CDP-coordinates

gridding:
time values
on regular grid

isochron
coordinates

gridded
time data

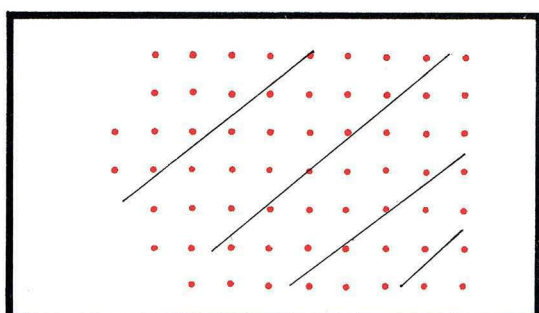
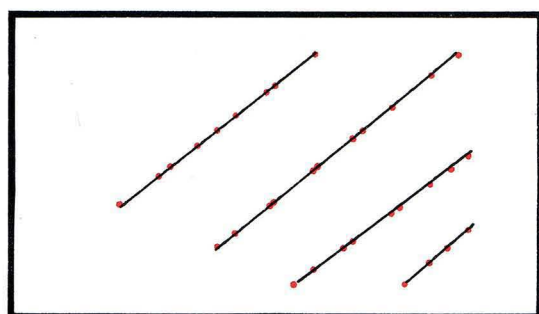
Mathematical functions

$$v = v_i + az_i + \dots$$

Regional
velocity
information

velocity
maps

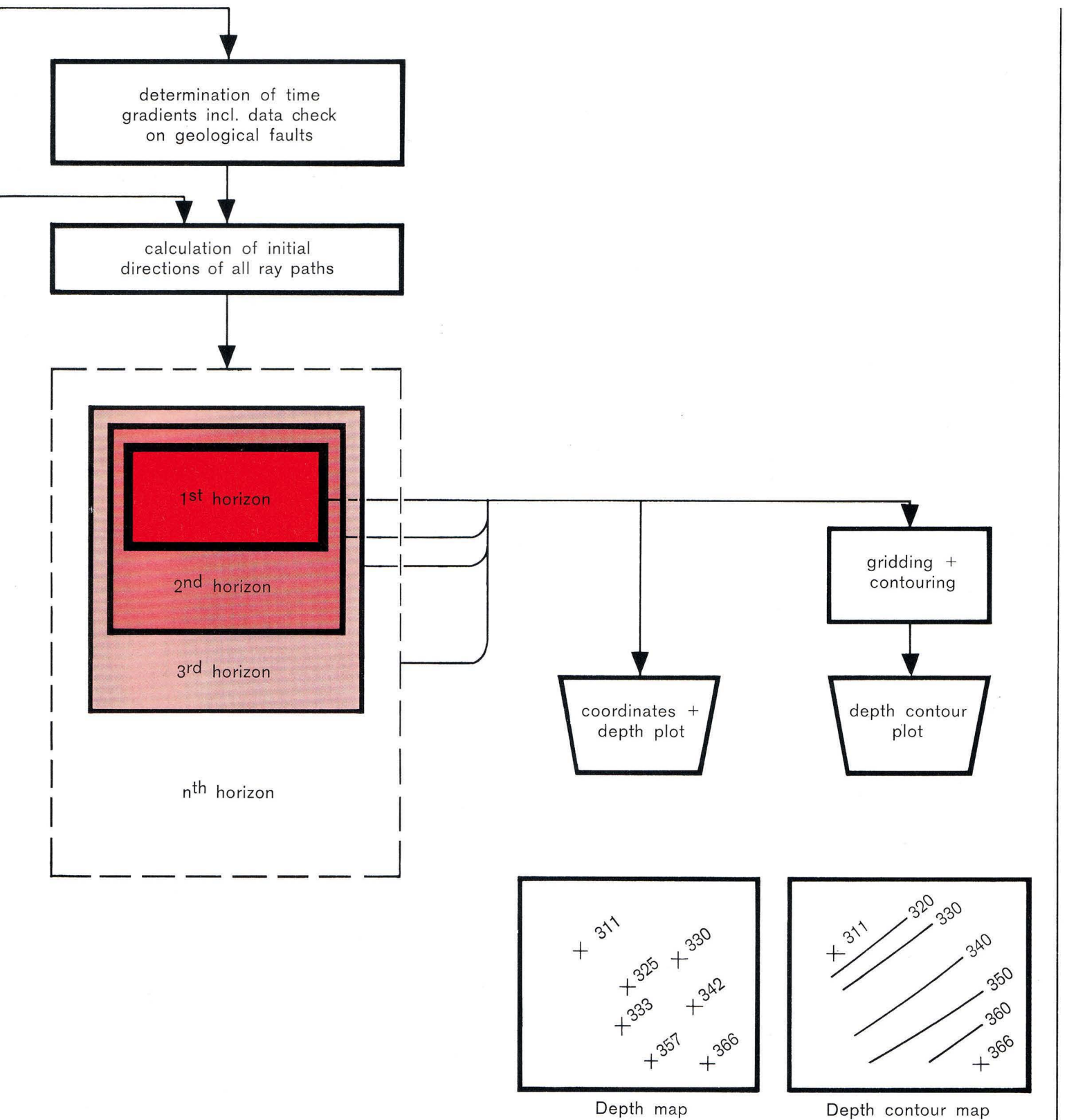
gridding:
velocity data
on regular grid



Gridded time map

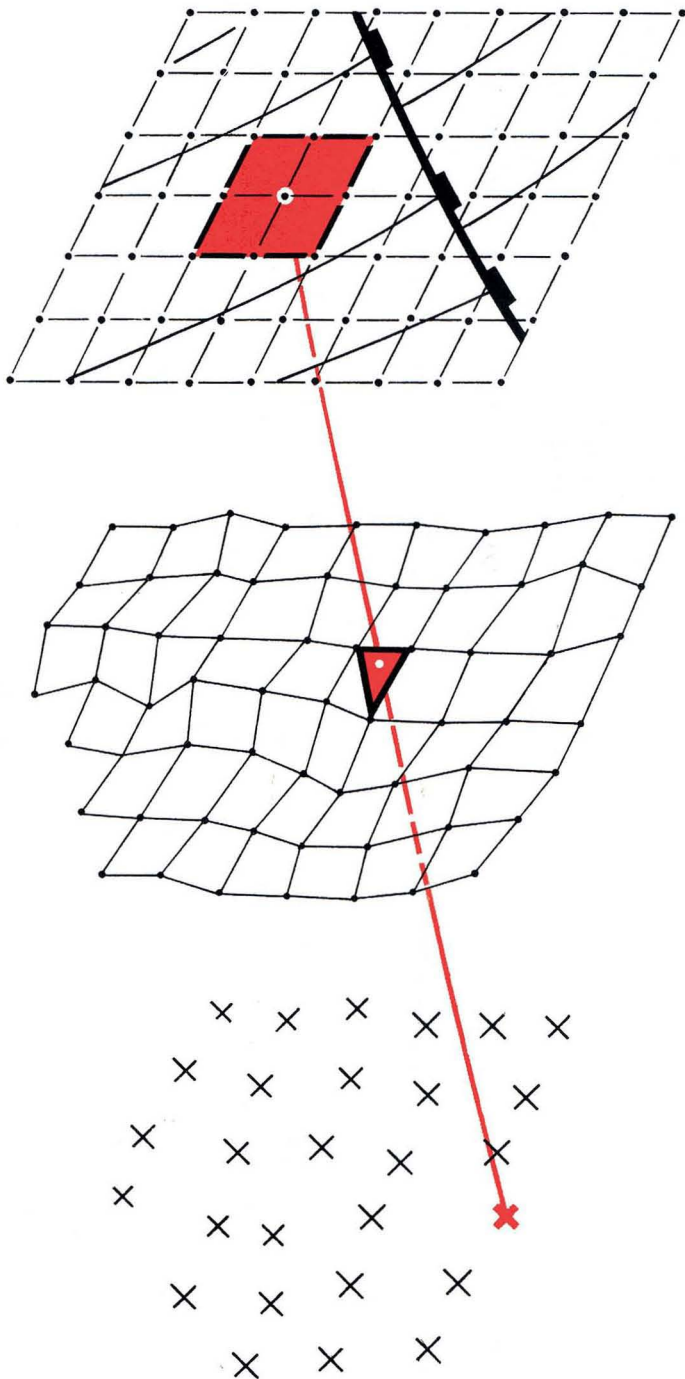
Data Processing

Output



Migration of Reflection-time Maps

The program was developed to fulfill the needs of seismic interpreters for a rapid conversion of unmigrated isochron maps, derived by one or another method from seismic sections, into migrated depth contour maps. Ray tracing is carried out taking into account time gradient, velocity, and the refraction of ray paths at overlying velocity discontinuities.



Reflection Times at datum plane

Refracting velocity discontinuity

Depth Map



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