

MS & CROP Reprocessing

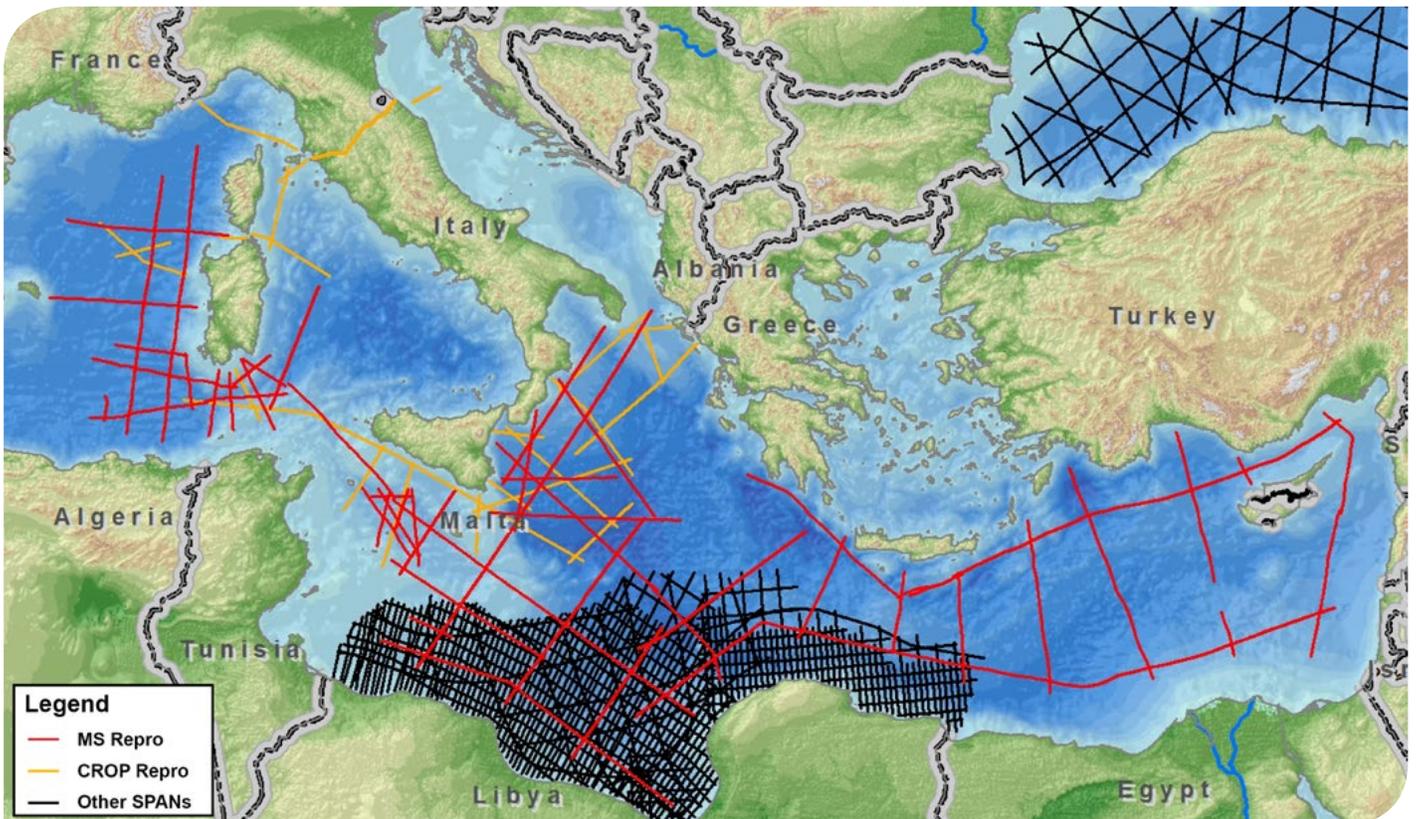
MS REPROCESSING OVERVIEW

Originally acquired in 1969-1980 by Osservatorio Geofisico Sperimentale (OGS), the MS dataset provided the first regional seismic framework for the Mediterranean region. At the time, processing techniques were limited and most of the work was performed by local academic institutions. In 2017, ION reprocessed approximately 17,000 km of this 2D legacy data. Through the application of modern signal processing and imaging algorithms, ION was able to achieve significant improvement over the original data. The final ION results are currently available in pre-stack time and pre-stack depth.

CROP REPROCESSING OVERVIEW

Originally acquired in 1988-1995 by Osservatorio Geofisico Sperimentale (OGS), the CROP dataset complements the earlier MS program and provides additional infill around various parts of Italy. Acquisition parameters were improved but processing techniques still remained basic. In 2017, ION reprocessed approximately 5,000 km of this 2D legacy data. Through the application of modern signal processing and imaging algorithms, ION was able to achieve significant improvement over the original data. The final ION results are available in pre-stack time and pre-stack depth.

The ION MS and CROP reprocessing results tie seamlessly together, creating a consistent regional seismic framework with modern imaging that covers the entire eastern and central Mediterranean Sea.





PROGRAM OBJECTIVES

- Improve processing and imaging results using ION's modern proprietary techniques
- Tie both MS and CROP datasets into one contiguous and consistent regional framework
- Tie to LibyaSPAN and Libya Reprocessing
- Tie existing wells in the region
- Aid regional geologic understanding of the Mediterranean Sea
- Improve understanding of known petroleum systems and explore new play ideas

KEY COMPONENTS

- 17,000 km of the MS dataset reprocessed with 10 second record lengths
- 5,000 km of the CROP dataset reprocessed with 20 second record lengths
- Reprocessing to be completed in early 2017
- Deliverables include: PSTM stacks, PSDM stacks and velocity models

ABOUT BasinSPAN™

BasinSPAN surveys are geologically inspired, basin-scale seismic data programs acquired and depth-imaged using the most advanced geological and geophysical processing tools available. They provide upstream companies with the ability to evaluate the geologic evolution, deep basin architecture and depositional and structural histories of entire petroleum systems in a region. Our global 2D BasinSPAN library consists of data from virtually all major offshore petroleum provinces providing asset managers significant risk mitigation as they develop exploration and appraisal programs with greater confidence.

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