

## Seismic Interpretation & Exploration

**Ecolog** is a private consulting and design firm established in 2002, with a **track record** of designing, managing and executing **exploration activities** and **geophysical-geological investigations**. **Ecolog's** well-trained, field-oriented, geophysicists and geologists, work in collaboration with **Ecolog's** engineering and environmental departments in a **multidisciplinary** and industrious environment. The exploration and geophysics team operates two **Kingdom** © workstations with advanced modules for data processing and interpretation (EarthPak and AVOPak), **GIS ArcView** ©, **FracMan** © for fracture and reservoir analyses/modeling and **more**. The team regularly collaborates with its domestic and foreign associates, providing a **wide spectrum of services meeting international standards on world-class projects**.

**Ecolog's** core **seismic interpretation team** includes three PhD's and three MSc's with expertise in geology, seismic interpretation, seismic/advanced processing, petrophysics, reservoir modeling, well analysis, paleogeography, and more. The team is capable of providing a wide range of services including:

- 🌐 Support for acquisition of exploration **licenses**.
- 🌐 Seismic survey design for exploration, geotechnical, and environmental purposes (shallow/deep refraction and reflection, terrestrial and marine surveys).
- 🌐 **Quality Control (QC)** of acquisition and processing (wells, seismic, magnetic etc.).
- 🌐 Seismic **interpretation** of 2D and 3D surveys in conjunction with geological (wells), magnetic and gravimetric data.
- 🌐 **Stratigraphic** correlation, **paleogeographic** reconstruction, seismic stratigraphy and **basin analysis**.
- 🌐 Reservoir **compartmentalization** characterization, fracture and flow **modeling**.
- 🌐 Complete **hydrocarbon system characterization**.
- 🌐 **Management** of exploration activities; including preparation of complete **drilling prospects**.
- 🌐 **Integration** of geophysical and geotechnical data for a full **site investigation** and the support of **infrastructure** projects.

## Interpretation & Exploration Leading Team



### **Ilan Bruner (PhD) – Principal Geophysicist, Senior Partner**

Dr. Bruner, a 30 years geophysicist is Ecolog's CEO (in a partnership with Dr. Levy Kroitoru). Dr. Bruner served over 10 years as manager of the Seismic Division in the Geophysical Institute of Israel (Ministry of National Infrastructure), and in the upstream oil industry private sector as a manager and consultant in domestic and foreign oil companies. Dr. Bruner has experience managing exploration and geotechnical projects on a national and international scale, including the design, acquisition, processing, quality control, interpretation, licensing and prospect evaluation in the exploration work flow. He is the author of numerous scientific publications, holds lecturing positions in academic institutions and has strong collaborative ties with key personnel in the government and the industry.



### **Ory Dor (PhD) – Chief Geologist**

Dr. Dor completed a PhD at the University of Southern California and a Post-Doc at Brown University. He has over 10 years of experience including research, field work and consulting. Dr. Dor is the manager of several large scale exploration projects that include the interpretation of 2D and 3D terrestrial and marine seismic surveys. He focuses on the geological framework of the interpretation space, the correlation of seismic reflectors to stratigraphic horizons, identification of depositional environments and paleogeographic trends, characterization of the reservoir quality, seal, trapping configuration and other oil system components, and on the definition of prospects. Dr. Dor will present findings from his exploration activities in the Hula Valley, Northern Israel, in the coming international workshop of the European Association of Geoscientists & Engineers (EAGE) on Petroleum Play Assessment.

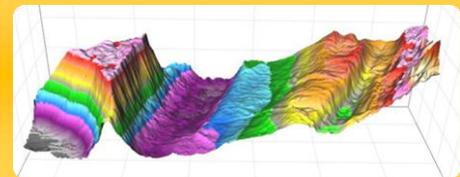
# Interpretation & Exploration Project Portfolio

**Client:** Emanuelle Energy



**Project Name:** Interpretation of 3D seismic survey for "Sara" and "Myra" offshore licenses

**Project Description:** interpretation of a 971 by 2561 lines 3D seismic survey in a PSDM format. Ecolog identified several key horizons and correlated them to known stratigraphic



interfaces in the basin. Work included the characterization of the various plays and definition of corresponding prospects (structural and stratigraphic), reservoir analysis, initial reserve estimation, recommendations for well locations, participation in international technical meetings and continuous support for the project.

**Project Name:** Evaluation of exploration potential in the Adriatic Sea - Albania

**Project Description:** Examination of existing seismic surveys in the Albanian territorial water integrated with well data, analysis of existing information about the regional geology, plays and oil systems, assimilation of inferences with discovery and production information from the Italian side of the Adriatic Sea.

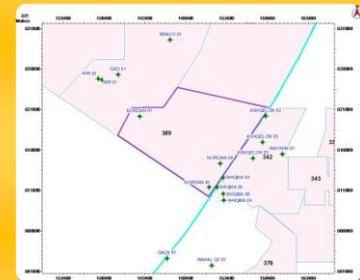


**Client:** Cassal Drilling



**Project Name:** Exploration at on- and off-shore blocks

**Project Description:** Ecolog provides Cassal with a long term technical support in its exploration activities covering several blocks in Israel. In the offshore Shiqma Yam license, Ecolog is responsible for the work associated with all license' milestones including project administration, interpretation, QC of processing, play and prospect analysis, reports and communication.

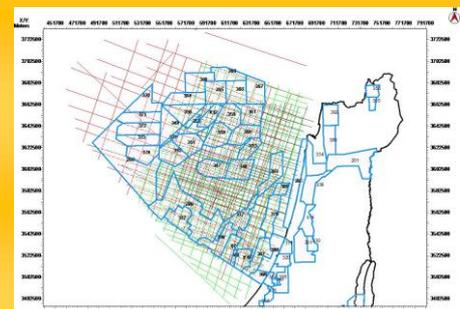


**Client:** EZ Energy



**Project Name:** Support in exploration frontier development

**Project Description:** Ecolog is advising EZ with its development of new exploration frontiers in order to deepen EZ's involvement in the domestic and international hydrocarbon market. This includes the examination of farm-in opportunities and the estimation of the likelihood for prosperous exploration in open areas.

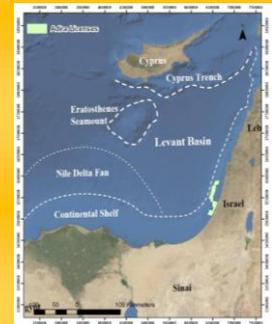


**Client:** Adumim Holdings



**Project Name:** Evaluation of exploration potential in offshore licenses

**Project Description:** Ecolog examined for Adumim technical, administrative and licensing information associated with three offshore blocks in the Israeli continental shelf. Examination included the review of existing interpretation of seismic data, previous reports, public well data and miscellaneous sources of information. This was followed by recommendations to Adumim regarding investment in the blocks.



**Client:** Ginko Oil Exploration



**Project Name:** Exploration management in the Dead Sea area

**Project Description:** Ecolog's Dr. Bruner was Ginko's exploration manager, a job that required the design of a work program, planning and executing seismic surveys, QC on processing, seismic interpretation, reconstruction of geological and tectonic model, development of plays and definition of drilling prospects. Ecolog receives royalties from this successful exploration campaign.

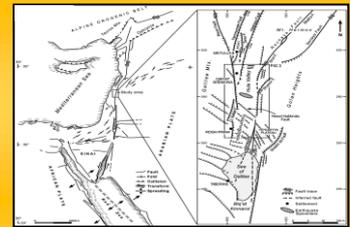


**Client:** Coalbed Gas Hachula



**Project Name:** Exploration management of coalbed gas license in the Hula Valley

**Project Description:** services required from Ecolog by Coalbed include seismic interpretation, tectonic and stratigraphic analysis, play definition, well correlation, synthesis of historic production activities, reserve definition and regulatory support for exploration.



**Client:** Coleridge Capital

**Project Name:** Licensing acquisition, expert opinion, exploration services

**Project Description:** Ecolog prepared and edited licenses application for Coalridge, which was followed by technical support for litigation matters. Ecolog is now performing seismic interpretation of existing material and leading the design of a 3D seismic survey as part of the work associated with the licenses special conditions (milestones).

