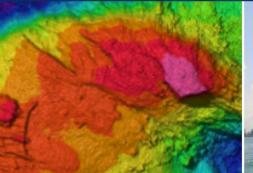


THE IMPORTANCE OF ESTABLISHING AN ENVIRONMENTAL BASELINE

Tom Dettweiler Director Mineral Exploration Division

Michael Wright ERIAS Group

www.odysseyminerals.com









Our Evolution

- Over 18 years experience in developing advanced exploration capabilities in the field of historic shipwrecks
- Recruited to apply those techniques to the field of SMS exploration
- While bidding to implement our tested survey techniques, approached by Bluewater Minerals to partner on their existing tenements
- Formed Dorado Ocean Resources and converted the Dorado Discovery into the first purpose-built mineral exploration vessel



Time Line – SMS Exploration

- Beginning 2010 Acquired an ex-seismic vessel and began conversion to the R/V Dorado Discovery
- August 2010 set off on a multi-national operation to explore and quantify the Dorado/Bluewater tenements
- Early 2011 conducted similar operations for Neptune Mineral Resources
- After acquisition of Neptune, the new Neptune Minerals acquired Dorado tenements and Odyssey was contracted to continue exploration of these tenements

Time Line – Phosphate Exploration

- Conducted exploration and sampling of the Chatham Rise Phosphorite Deposits off New Zealand on contract to Chatham Rise Project
- Conducted Discovery and Exploration of major Phosphorite Deposit in Eastern Pacific including one of the finest Environmental data collections to date.

Our Unique Approach-The "Swiss Army Knife"

- Put the scientists to sea with all the equipment and technical support they need
- Create flexibility to modify the operation based on real-time data, in order to maximize the knowledge of each site before moving on, as well as being able to respond to the unexpected
- Keep the same well-trained and integrated team together, maintaining a high level of expertise

The Ship

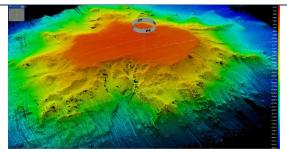
Dorado Discovery

Aerial and Drill

B-Roll

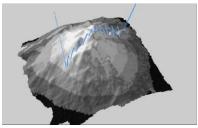


Deep-Ocean Mineral Exploration and Sampling



Ship Mounted Multibeam





TowYo Survey





DeepTow Sidescan and Magnetometer

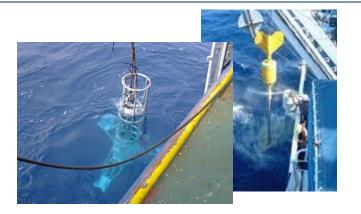




ZEUS ROV Inspection, Sampling, and High Resolution Mapping



Core Collection and Bulk Sampling



Piston, Gravity, and Vibra-Coring and Multicoring





Box Coring







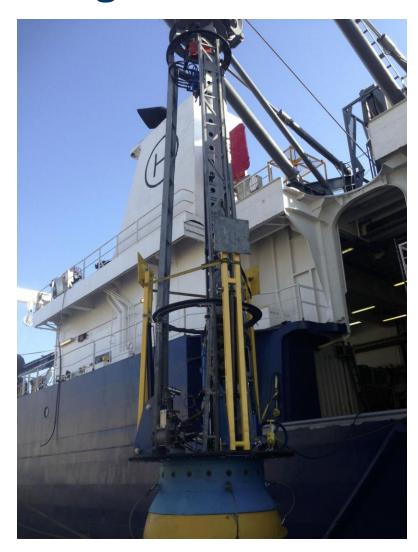
Bulk Sampling







Single Pass Seafloor Drill





Environmental Collection Program

Why do we want to do this?

- As citizens of the planet it is our social obligation
- We plan to maintain a lead in proper exploration for the long term
- DeRisking of the potential resource site
- "Kickstart" the design of the recovery process to minimize or, in some cases, prevent impact
- Give the governing bodies the knowledge they need to make informed decisions on granting, remediation, and monitoring
- The personal challenge of being one of the first industries to develop in partnership with the environment



Supporting the effort to have industry buy-in

Driving the International Marine Minerals Society supporting committees.

- Technology
- Environmental
- Education

Identifying primary industry issues and offering solutions at the next Underwater Mining Institute in 2014

