# Probing the Third Dimension of the Reef Complex at Kepulauan Seribu

## A Proposal for Gathering Seismic Profiles and Cores of Holocene Sediments

Integrated Data Services, Louisiana State University, and PT. Geoservices jointly announce their program of shooting shallow, high-resolution seismic profiles and tying these profiles with cores across the Kepulauan Seribu reef comples in the West Java Sea (Fig. 1). The surface sediments of Kepulauan Seribu, 50 kilometers north of Jakarta, have been mapped in considerable detail (Jordan, 1998); in addition, a few cores have been taken in shallow-water reef environment (Park, 1994). However, no deep-water coring nor shallow seismic data has been gathered to investigate the evolution of this modern reef complex. In fact, Holocene reef facies here sit atop equivallent Miocene Reef facies which produce at the giant Bima Field.

This research program will gather a series of seismic profiles and take several cores along these profiles. All representative environments of deposition will be sampled with these techniques, including shallow-and deep-water settings. Companies are asked to participate in this program by taking part in data collection, in the sharing of samples, and in the funding of operational costs. A final report by the principal investigators will be distributed to participant companies.

Field work is scheduled for a month-long period October / November of 1999. Preliminary analyses of data and samples will be completed and distributed in March 2000. These data will include interpretation of 500 km seismic profiles and minimum of 20 cores (Fig. 1), detailed core analysis, foram ecology, carbon-14 age-dating of selected samples, and the preparatin of a comprehensive geological/geophysical model of the Kepulauan Seribu reef complex through time. Supporting companies are aksed to commit to this project by December 1998. Data gathered will be held as confidential until a two-year period of confidentiality has elapsed, at which time investigators will publish certain results of this project.

Two specialists have teamed up to put this program together. They are Dr. Clif Jordan and Dr. Harry Roberts. Clif has specialized in Tertiary reef studies for the last twenty years, having studied several Miocene carbonate reservoirs from South East Asia, most notably the Arun and Walio Fields. He spearheaded the collection of surface samples across the Pulau Seribu complex that forms the basis for this project; an IPA publication of this data appeared in May 1998.

Harry Roberts is a professor of geology at Louisiana State University in Baton Rouge, Louisiana, has gathered and interpreted seismic profiles from several Holocene sites of deposition in Indonesia, most recently south of Kalimantan.

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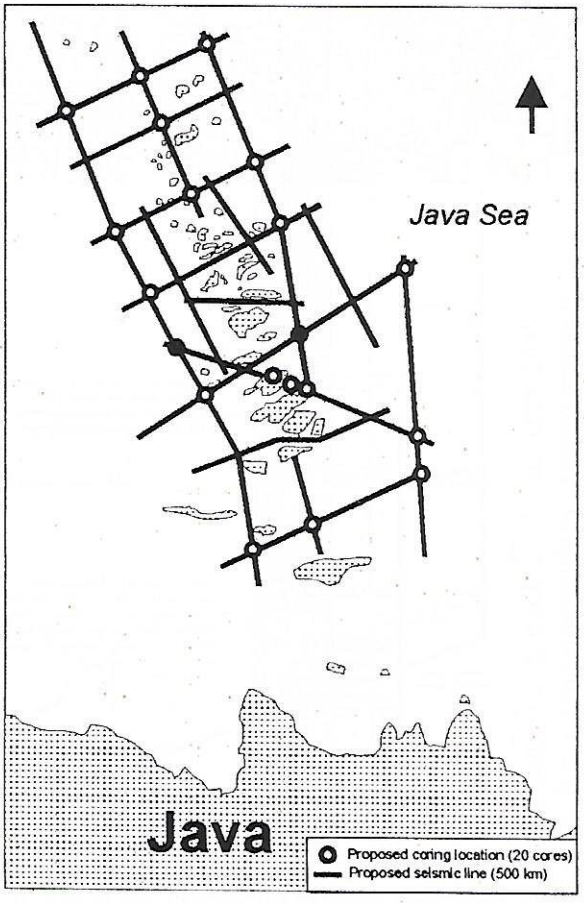




**Fig. 1.** Location map of proposed seismic lines and cores of Holocene Kepulauan Seribu reef complex.