

Oil and Gas Exploration in Maldives

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Maldives

- * In the Indian Ocean.
- * There are about 2000 islands in total.
- * Only 200 are inhabited.
- * World's most geographically dispersed country.
- * Population: 366,972



Maldives

- * **Ethnic Groups: 100% Maldivians**
- * **Religion: 100% Islam**
- * **Language: Dhivehi**
- * **Water: 99%**
- * **Currency: Maldivian Rufiyaa**
(1USD=15.42MVR)
- * **Literacy percent: 99%**



Economy

- * Ancient times Maldives were renowned for cowries, coir rope, dried tuna fish, ambergris
- * Principal Activities: Tourism and Fishing
- * Tourism industry is responsible 90% of the government's Tax revenue
- * As of 2014, 100 resorts in the Maldives offered over 31,000 beds and hosted over 1,000,000 tourists annually.
- * Fishing is the second largest industry. Famous for sustainable fishing (Pole and Line)



Gross Domestic Product

- * The GDP in Maldives was worth 3.14 billion US dollars in 2015. The GDP value of Maldives represents 0.01 percent of the world economy.



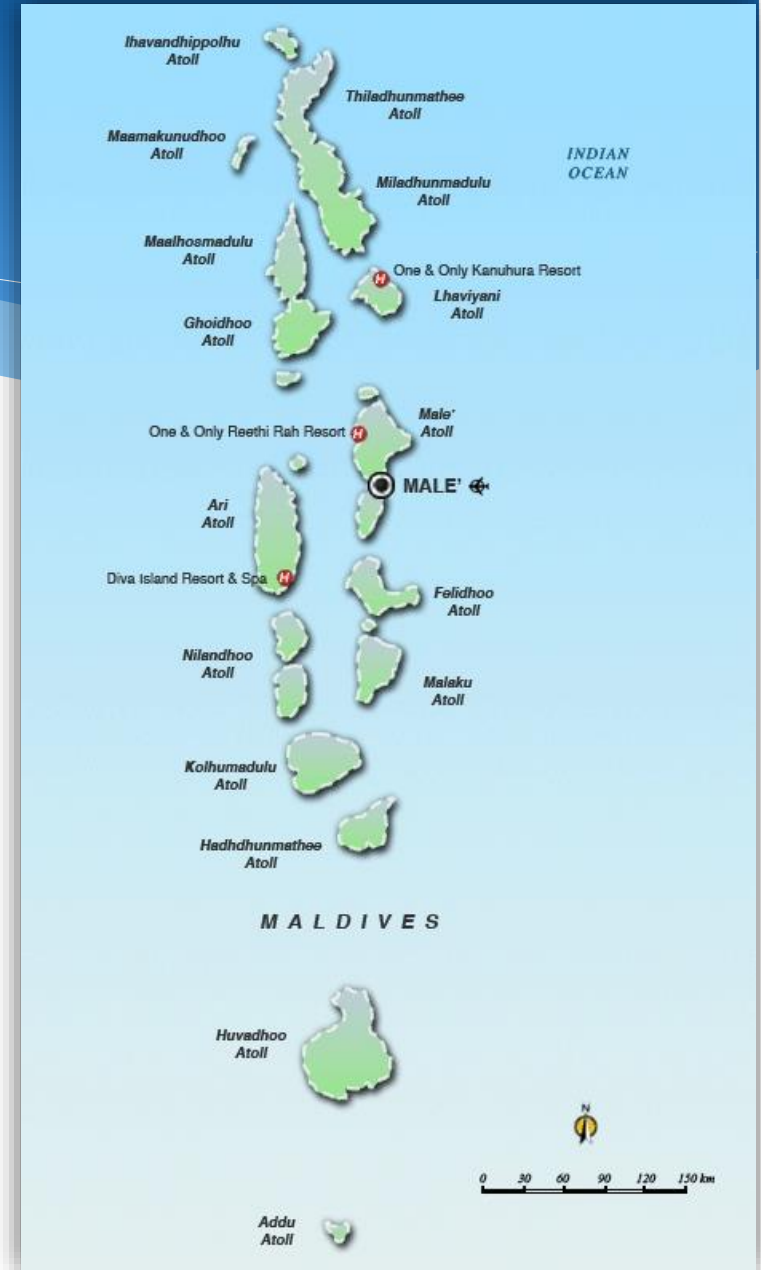
Capital City



- * Fourth most densely populated island in the world.
- * Size: 5.798km²
- * More than 103,000 people live in Male'

Challenges

- * Dispersed population makes it very hard for the government to provide services.
- * Densely populated capital city creates many social issues.
- * Highest land is 1m above the sea-level.
- * Climate change will have some serious effect to the eco-system of the Maldives jeopardizing the survival.



Island Life

- * Each habited islands require separate power house.
- * Some islands have low population, hence less demand (100kW)



Power Production



- * Power is produced using diesel.
- * Part of the power is produced from solar energy.
- * Maximum demand in Male' is 55MW.
- * Solar power produced is 1MW in Male'.
- * Daily Fuel Consumption: 239,000 Liters (1195 drums)
- * 1 liter costs MVR 9.0 = MVR 2151000 (139494 USD)

Solar Energy

- * Government have plans to incorporate renewable energy for power production in each island.
- * Under Poised project electricity production of each island will be from 30% renewable energy sources.
- * Due to lack of space it is not feasible to install solar panels to cater to high demand in Male'



Oil and Gas exploration

- * Government searching for other resources
- * Studies have been conducted in exploration for gas and oil in different parts in Maldives by private researchers.
- * Preliminary results have shown that there is a high percentage of finding oil in Maldives.



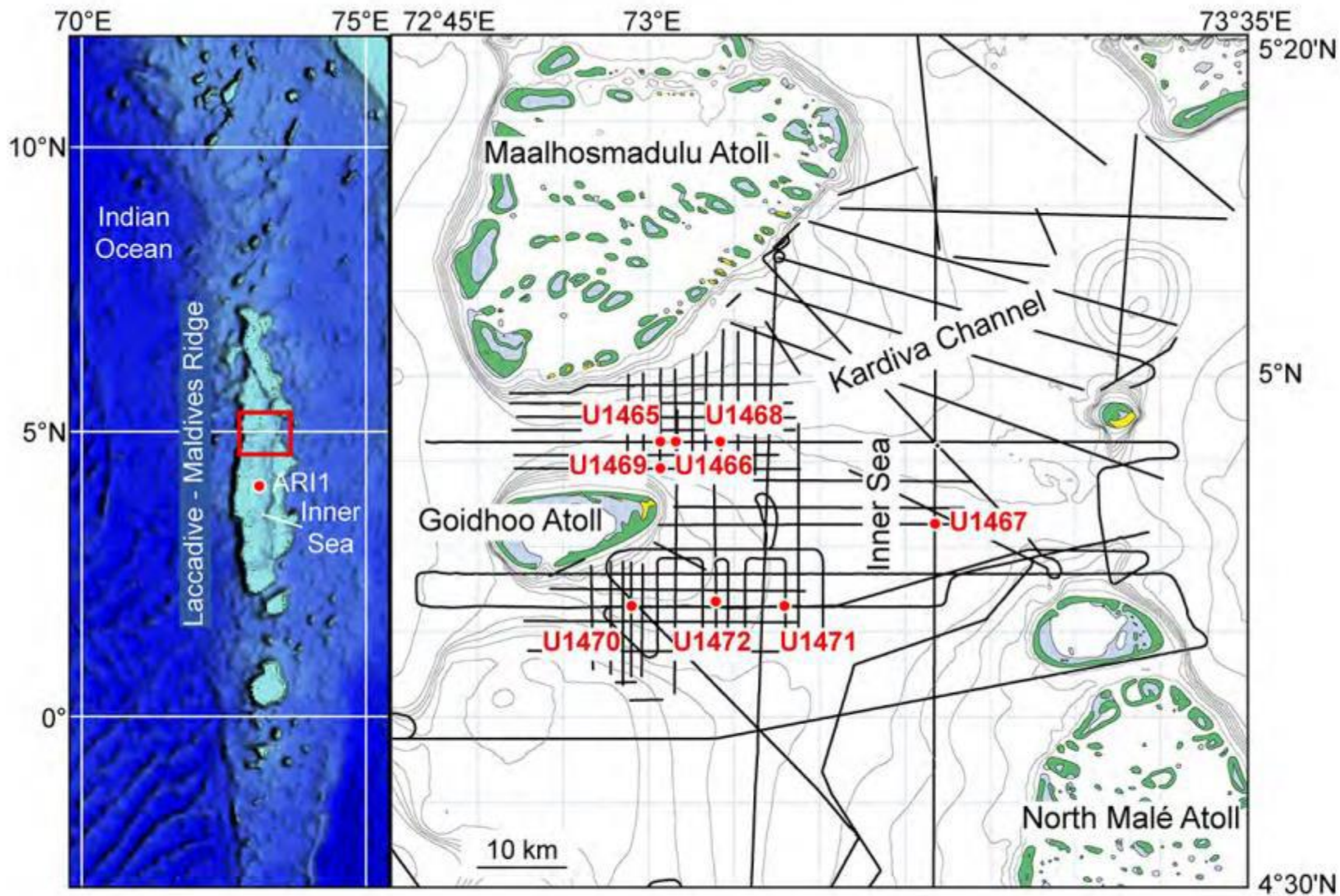


Figure-PR-F2

8 sites cored, maximum penetration: 1003 m

Findings



- * Numerous pockmarks were observed in the inner ocean.
- * Oil producing source rock have been found in areas near Goidhoo Atoll
- * Seismic analysis have shown that Maldives is on a transitional or continental crust, previously have been believed to be on an oceanic crust.

Findings cont.

- * Chemical analysis of an organic rich layer have shown substances from volcanic activity leading to believe that the soil is made up of continental fragments.
- * Geological studies have shown that the pockmarks are releasing hot gases consisting of methane and ethane.
- * The government is very much interested to conduct further studies in this area.



THANK YOU