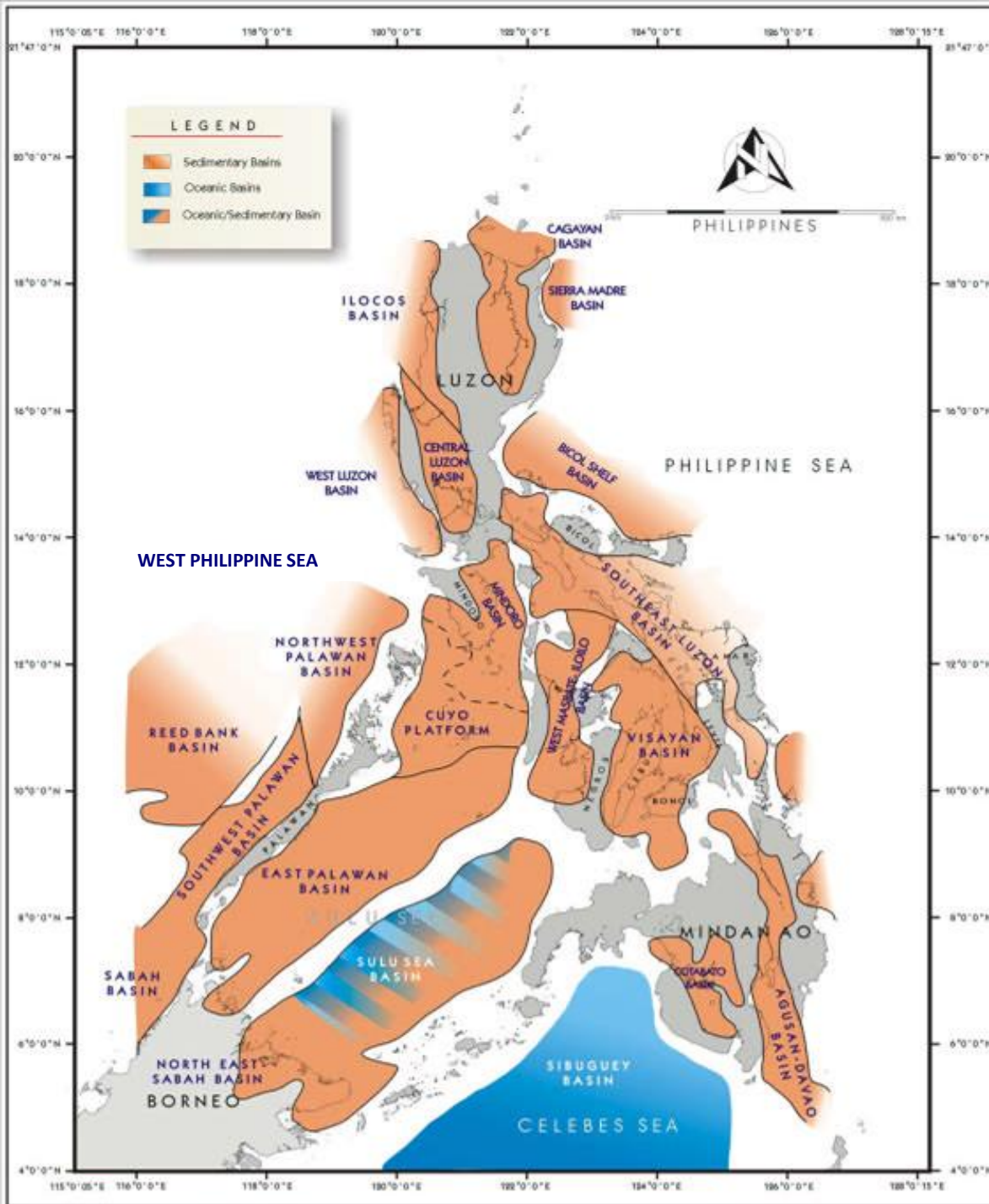
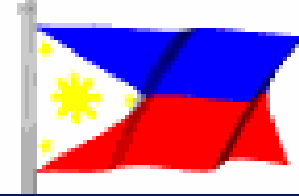


# Philippine Country Presentation

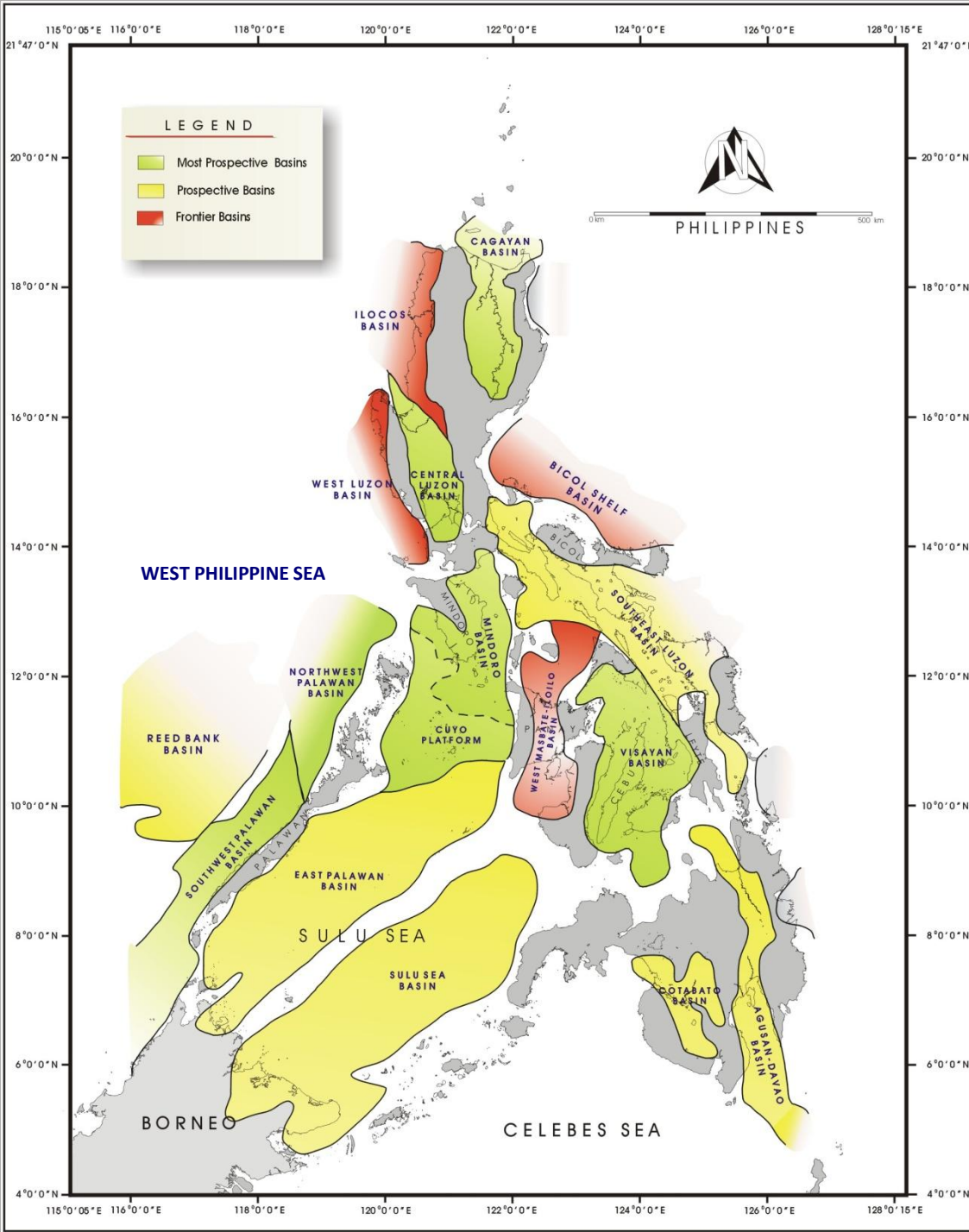
## East Palawan Basin Project

Phnom Penh, Cambodia  
March 15, 2012



**16 sedimentary  
basins  
representing an  
area of over  
700,000 sq km**





# SEDIMENTARY BASIN PROSPECT MAP

## Most Prospective Basins

1. NW Palawan Basin
2. SW Palawan Basin
3. Cagayan Basin
4. Visayan Basin
5. Central Luzon Basin
6. Mindoro-Cuyo Platform

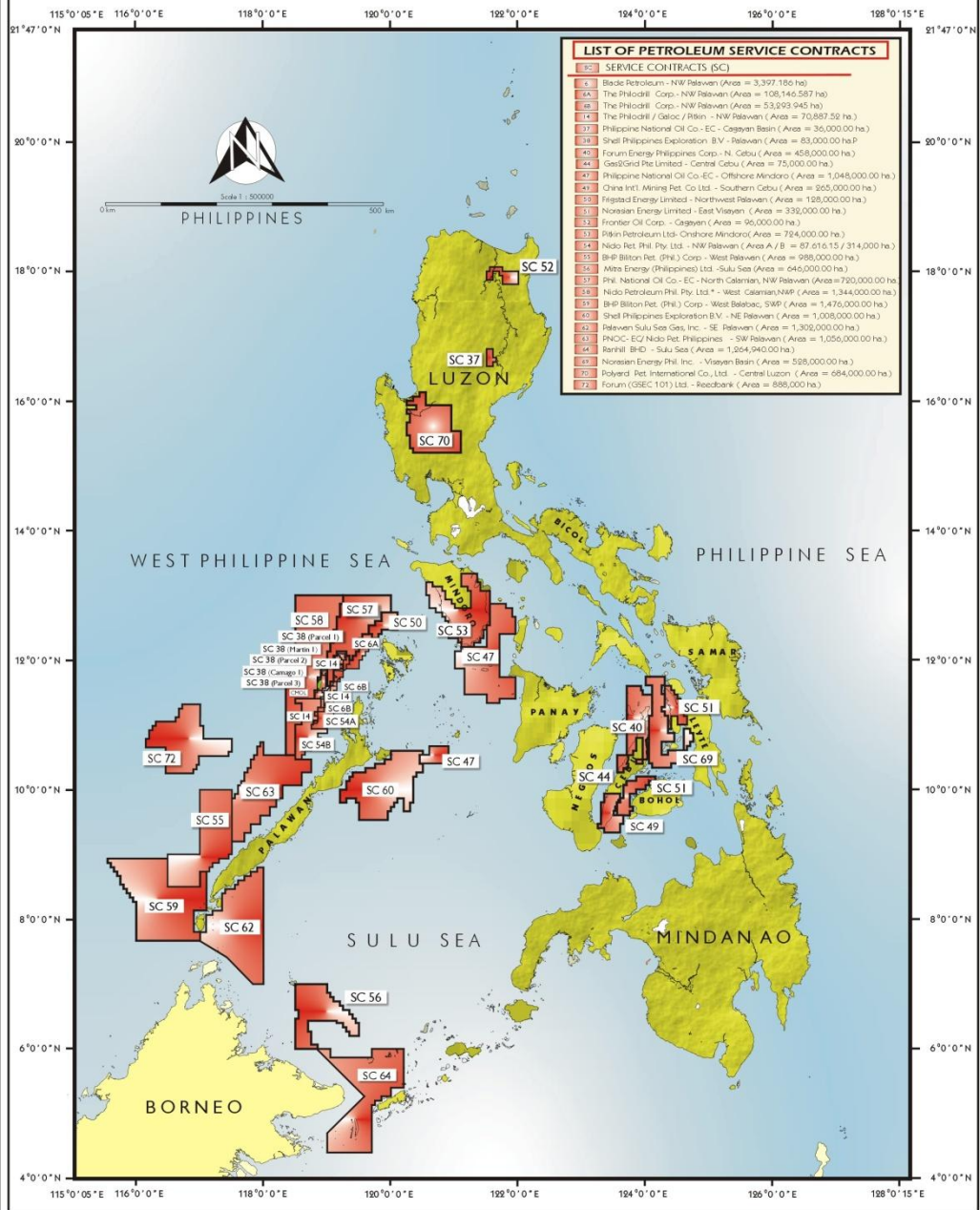
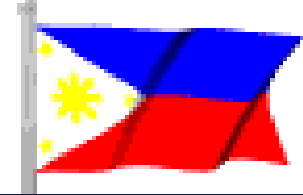
## Prospective Basins

1. Sulu Sea Basin
2. **East Palawan Basin**
3. Reed Bank Basin
4. SE Luzon Basin
5. Agusan-Davao Basin
6. Cotabato Basin

## Frontier Basins

1. West Luzon Basin
2. West Masbate-Iloilo Basin
3. Ilocos Basin
4. Bicol Shelf Basin





LIST OF PETROLEUM SERVICE CONTRACTS	
SERVICE CONTRACTS (SC)	
5	Bade Petroleum - NW Palawan (Area = 3,397,186 ha)
6A	The Philodiff Corp - NW Palawan (Area = 108,146,587 ha)
6B	The Philodiff Corp - NW Palawan (Area = 53,933,945 ha)
14	The Philodiff (GSPC) / Pison - NW Palawan (Area = 70,887,59 ha)
37	Philippine National Oil Co. - EC - Casayon Basin (Area = 36,000,00 ha)
38	Shell Philippines Exploration B.V. - Palawan (Area = 83,000,00 ha)
43	Forum Energy Philippines Corp - N. Cebu (Area = 458,000,00 ha)
44	GeoGrid Pet Limited - Central Cebu (Area = 75,000,00 ha)
47	Philippine National Oil Co. - EC - Offshore Mindoro (Area = 1,048,000,00 ha)
49	China Int'l Mining Pet. Co Ltd - Southern Cebu (Area = 825,000,00 ha)
50	Figstad Energy Limited - Northwest Palawan (Area = 108,000,00 ha)
51	Nonasun Energy Limited - East Visayas (Area = 332,000,00 ha)
52	Frontier Oil Corp. - Cagayan (Area = 50,000,00 ha)
53	Pitkin Petroleum Ltd. - Offshore Mindoro (Area = 724,000,00 ha)
54	Nido Pet. Phl. Pty. Ltd. - NW Palawan (Area A / B = 87,616.15 / 314,000 ha)
55	BHP Billiton Pet. (Phl.) Corp. - West Palawan (Area = 988,000,00 ha)
56	Mira Energy (Philippines) Ltd. - Sulu Sea (Area = 645,000,00 ha)
57	PNL National Oil Co. - EC - North Calamian, NW Palawan (Area = 720,000,00 ha)
58	Nido Petroleum Phl. Pty. Ltd. - West Calamian, NWP (Area = 1,344,000,00 ha)
59	BHP Billiton Pet. (Phl.) Corp. - West Balabac, SWP (Area = 1,476,000,00 ha)
60	Shell Philippines Exploration B.V. - NE Palawan (Area = 1,008,000,00 ha)
62	Palawan Sulu Sea Gas, Inc. - SE Palawan (Area = 1,302,000,00 ha)
63	PNOC-EG Nido Pet. Philippines - SW Palawan (Area = 1,056,000,00 ha)
64	Ranfhill BHD - Sulu Sea (Area = 1,204,940,00 ha)
67	Nonasun Energy Phl. Inc. - Visayas Basin (Area = 528,000,00 ha)
70	Polward Pet. International Co. Ltd. - Central Luzon (Area = 684,000,00 ha)
72	Forum (GSEC 101) Ltd. - Reebank (Area = 888,000 ha)

# EXISTING PETROLEUM SERVICE CONTRACTS

## 28 Active Service Contracts

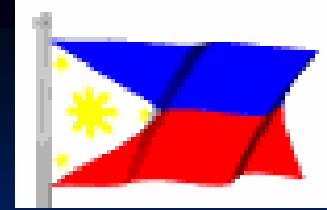


PETROLEUM SERVICE CONTRACT MAP

DEPARTMENT OF ENERGY PETROLEUM RESOURCES DEVELOPMENT DIVISION	
PREPARED BY:	DEANRH.F. ANTIPEDA
VERIFIED BY:	BJO./BA
DATA SOURCE:	PRDD
LAST UPDATE:	6 Mar. 2011







# Sedimentary Basins in the Sulu Sea

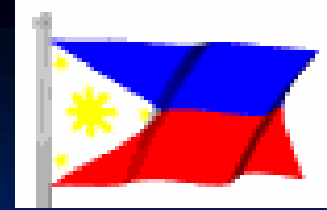


- Sulu Sea Basin

## East Palawan Basin (Pilot Project Area)

- Has a total area of 9,200,000 hectares
- Has 3 to 5 km of sedimentary thickness
- Resource Estimates in the Basin = 166 MMBO and 279 BCFG



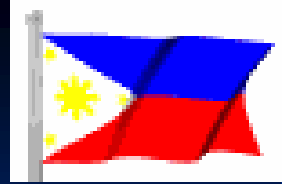


# Geology of the East Palawan Basin

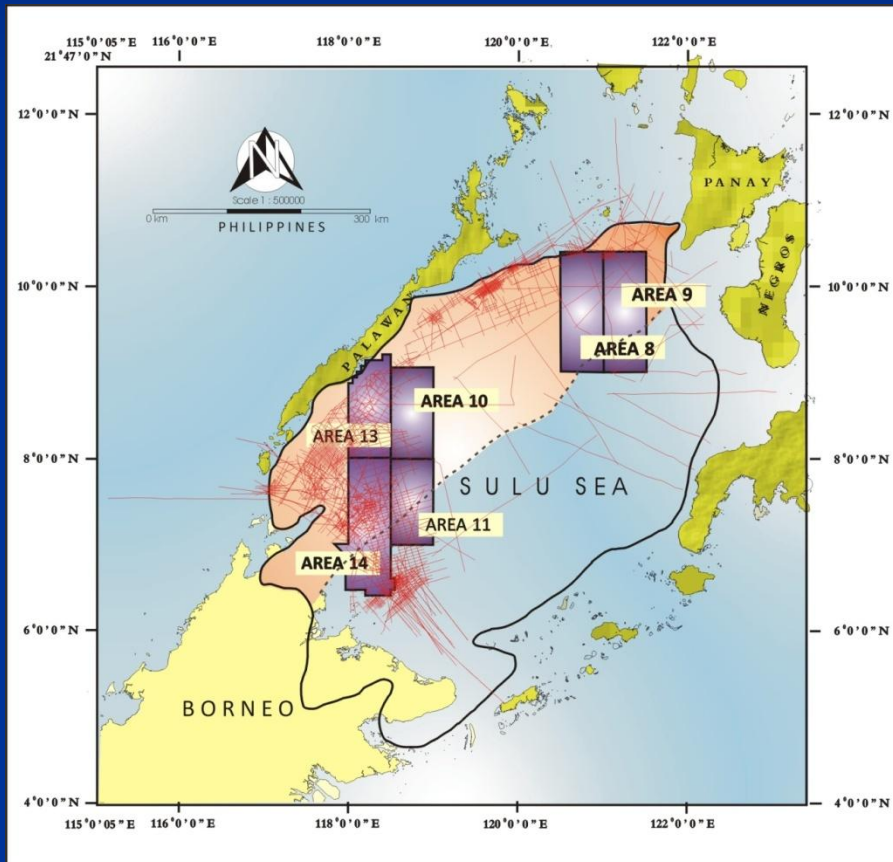


- Play types include Reef Build-up, Anticlinal, Stratigraphic
- Potential Source Rock is Base Tertiary – Middle Miocene (Pre Nido Fm)
- Reservoir is either
  - a) Middle Miocene carbonates and sands (Nido Limestone) or
  - b) Oligocene to Miocene sands and Cretaceous sandstones
- Seals are interbedded siltstone & claystone (Pag-asa Fm & Matinloc Fm)





# Seismic Coverage Map – East Palawan Basin



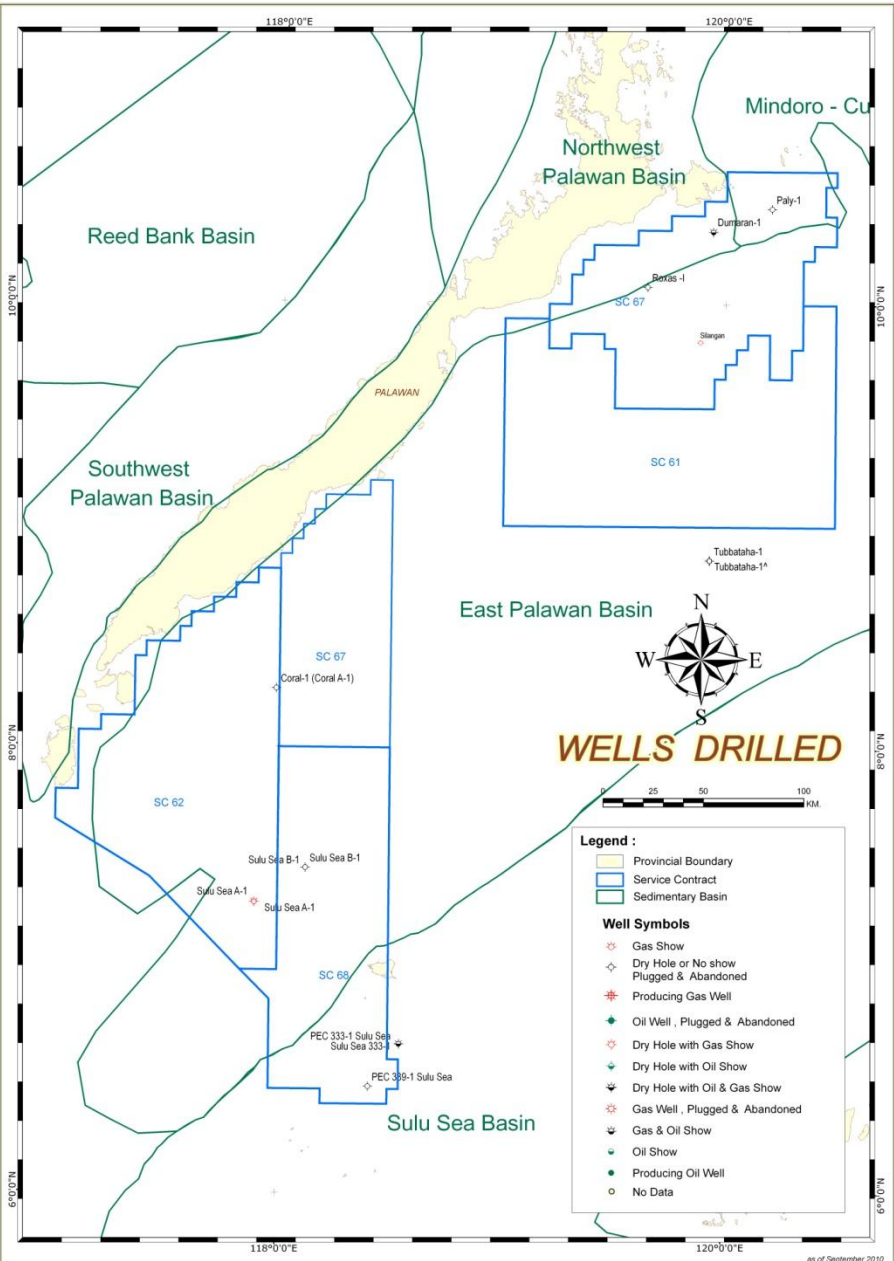
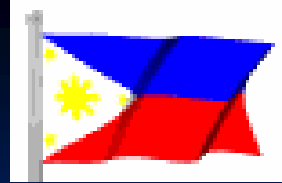
- 2D Seismic  
- 13,030.40 ln-km

- 3D Seismic  
- 499.24 sq-km

(Acquired last Aug. 2007 SC - 60)



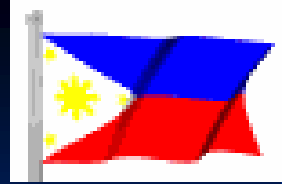
# Wells Drilled – East Palawan Basin



Well Name	Year Drilled	Depth (feet)	Results
1 Tubbataha-1	1957	1,484	Dry
2 Sulu Sea A-1	1973	8,586	Gas shows
3 Sulu Sea B-1	1973	7,287	Dry
4 Coral-1	1975	10,047	Dry
5 Roxas-1	1979	6,633	Dry
6 Dumaran-1	1979	6,850	Oil & gas shows
7 Paly-1	1981	6,883	Dry
8 Silangan-1	July 2010	8,842	Dry





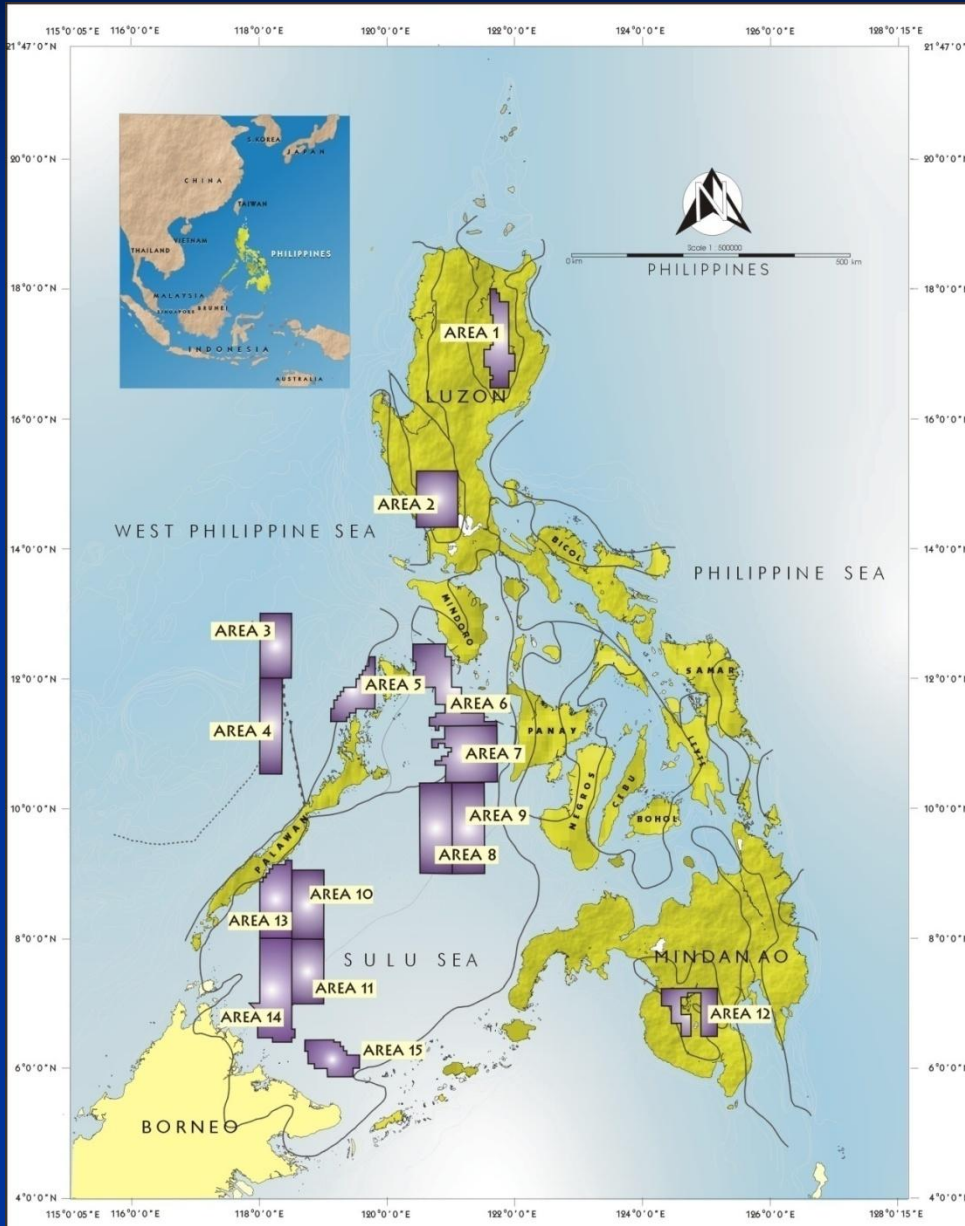


# HYDROCARBON POTENTIAL – East Palawan Basin

- Total resources:
  - Oil – 116 million barrels
  - Gas - 279 billion cubic feet

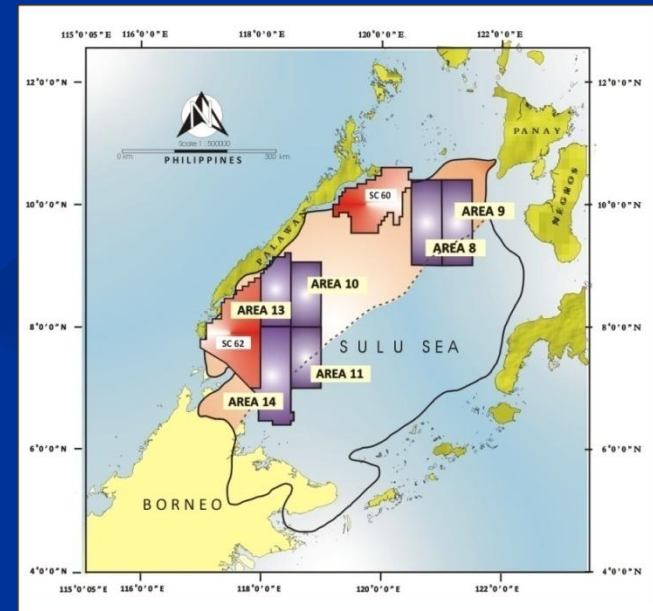


# PHILIPPINE ENERGY CONTRACTING ROUND 4

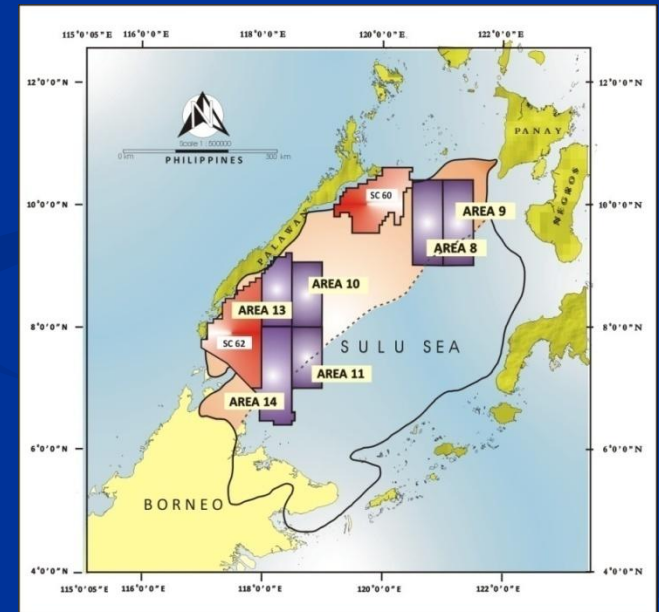
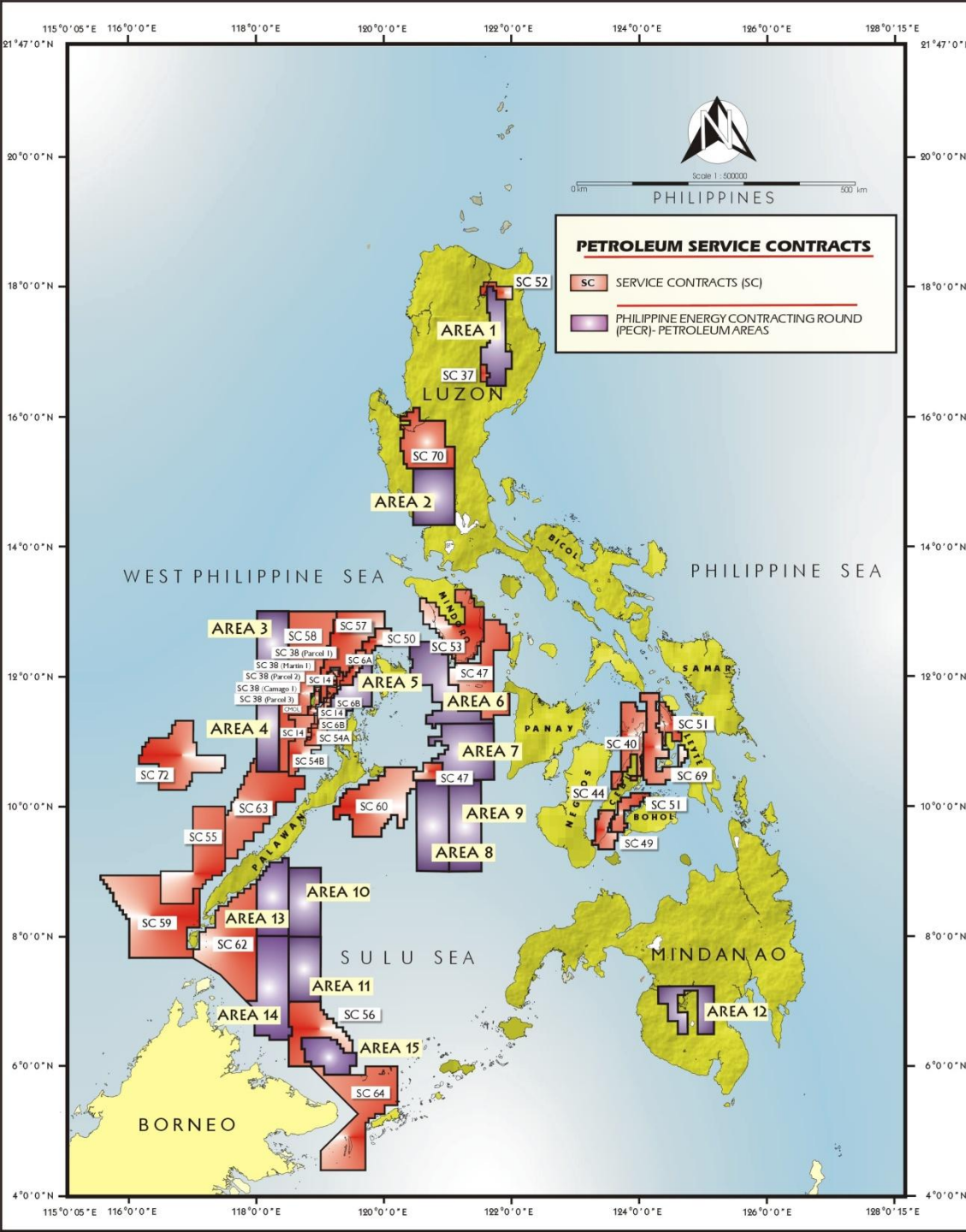


- 15 BLOCKS OFFERED

- 6 AREAS IN THE EAST PALAWAN BASIN

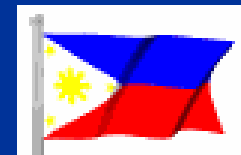


# CURRENT PETROLEUM SERVICE CONTRACT MAP WITH PECR4 OFFERED AREAS



# DATA ENCODING AND MANAGEMENT

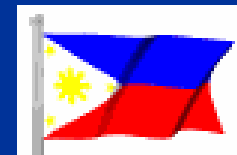
- Voluminous data (including other areas) was physically, scanned, filtered and collated for the East Palawan Basin in conjunction with the on-going Philippine Energy Contracting Round No. 4 for Petroleum (PECR4)
- Actual physical inventory of data was done
- Loading of data to the Kingdom Suite is planned to be done this Quarter





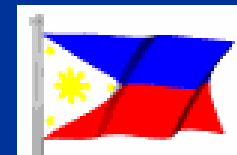
# CHALLENGES

- Experienced problems in loading data in GIMS due to DOE internet continuously having technical difficulties
- DOE server specs is not complementing the number of users, traffic bandwidth is very slow



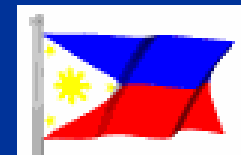
# CHALLENGES

- PECR4 Project of the DOE was given priority by the DOE Management
- This caused to depleted number of DOE staff to focus on the GIMS
- Also PRDD staff were assigned other tasks that were not related to their technical functions (i.e. legal aspects, administrative works, etc.)



# SOLUTIONS

- DOE is having an on-going upgrade of their internet capability .
- Replacement of Server (software & hardware) will be done by 2013.
- Recruitment of DOE Petroleum (PRDD) staff is on-going.
- Further / continuous training and focusing on this project is needed





**Maraming Salamat Po!!!**

