Thrustmaster of TEXAS, Inc.

DP: SIMPLIFYING REPETITIVE MARINE TASKS

Dynamic Positioning Committee

DP

DYNAMIC POSITIONING IS A COMPUTER CONTROLLED SYSTEM TO AUTOMATICALLY MAINTAIN A VESSEL'S POSITION AND HEADING BY USING ITS OWN PROPELLERS AND THRUSTERS.

WIKIPEDIA

NATURES VERSION OF DP

7

POWER SYSTEM

THRUSTERS

ENVIRONMENTAL SENSORS

POSITION REFERENCE SENSORS

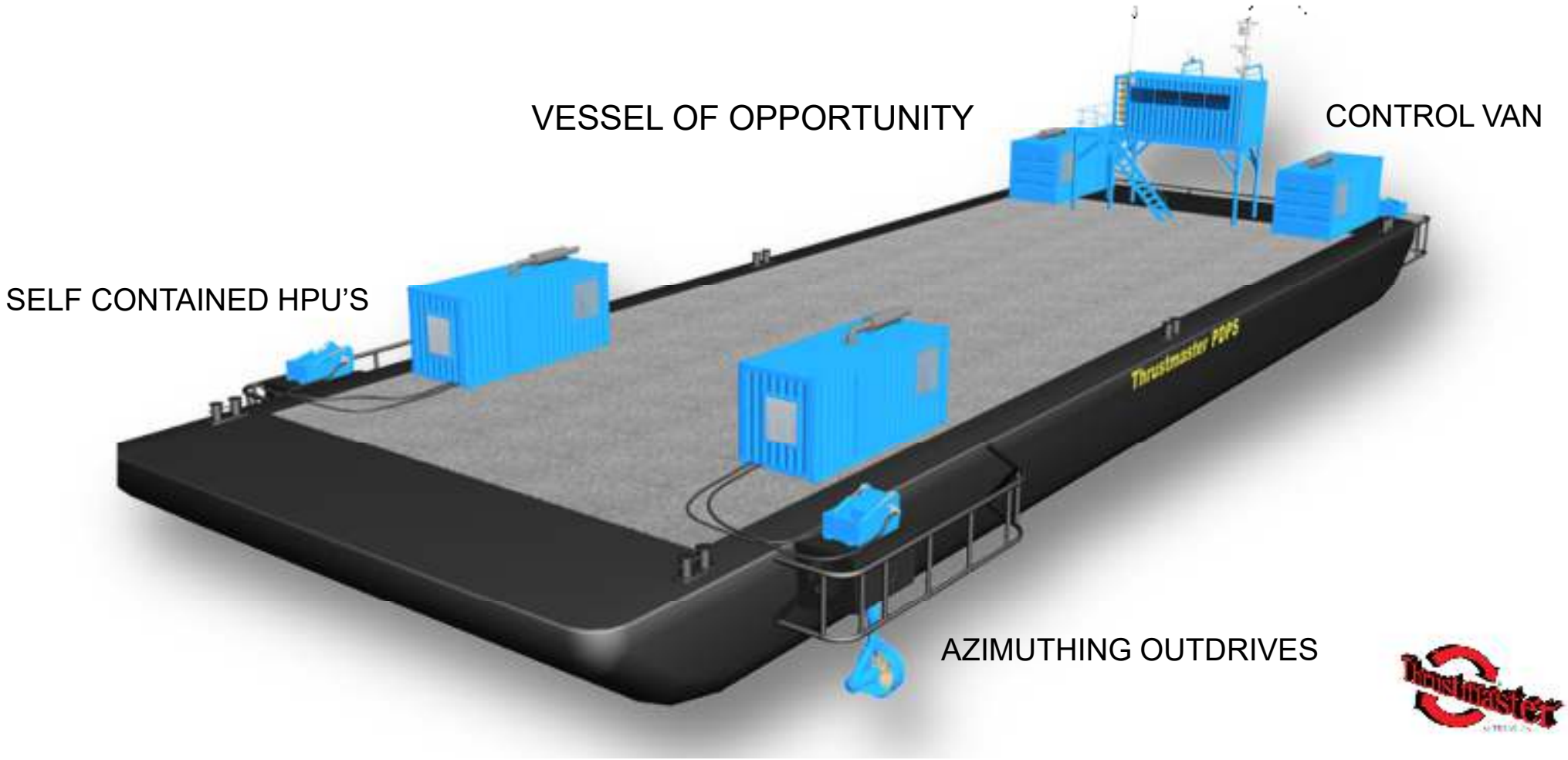
DP CONTROL SYSTEM

HARDWARE (HMI)

A HUMAN OPERATOR

PDPS - PORTABLE DYNAMIC POSITIONING SYSTEM

OUR PATENTED SYSTEM TURNS ANY "VESSEL OF OPPORTUNITY" INTO A DYNAMIC POSITIONED OFFSHORE ASSET WITHOUT DRYDOCKING



WHAT DO ANCIENT FISH, LOST GOLD, WIND FARMS AND ROCKET SHIPS ALL HAVE IN COMMON?

DP SYSTEMS HELPED THE PROJECT TEAMS SUCCEED IN ACHIEVING THEIR FINAL GOALS.

SEARCHING FOR ACHIENT FISH IN ONE OF THE WORLD'S OLDEST AND DEEPEST LAKES

LAKE MALAWI

472 METERS ABOVE SEA LEVEL

700 METERS IN DEPTH

THE PROJECT SCOPE WAS TO DISCOVER AND STUDY WHY THERE ARE A LARGE NUMBER OF CICHLID SPECIES FOUND IN ONE LAKE

CORING TO A DEPTH OF 1250' IN 2000'OF WATER

SAMPLES DATING BACK 1.3 MILLION YEARS

HELPING TO IDENTIFY SPEICES OF CICHLID FISH

CORING BARGE
200’X 50’

OUTFITTED WITH
4 X 300 HP RETACTABLE
TRANSOM MOUNTED
THRUSTERS AND HPUs

PDPS CONTROL VAN
HOUSING ALL STEERING
AND DP CONTROLS

CORING RIG AND
LIVING QUARTERS

THE SHIP OF GOLD...
SEARCHING FOR THE
U.S.CENTRAL AMERICA

SS CENTRAL AMERICA

278' WOODEN-HULLED STEAMSHIP

578 PASSENGERS, 21 TONS OF GOLD AND SILVER INCLUDING DOUBLE EAGLE COINS, GOLD BARS, AND GOLD DUST FROM THE CALIFORNIA GOLD RUSH

SHE SANK 160 MILES OFF THE SOUTH CAROLINA COAST

IN 8000' SW

425 PEOPLE WERE LOST WITH ALL THE GOLD AND SILVER

R/V *ARTIC DISCOVERER*

PREVIOUSLY THE *A.T. CAMERON*

180' FOOT VESSEL OUTFITTED WITH ALL THE DEEP OCEAN SONAR EQUIPMENT AVAILABLE AT THE TIME

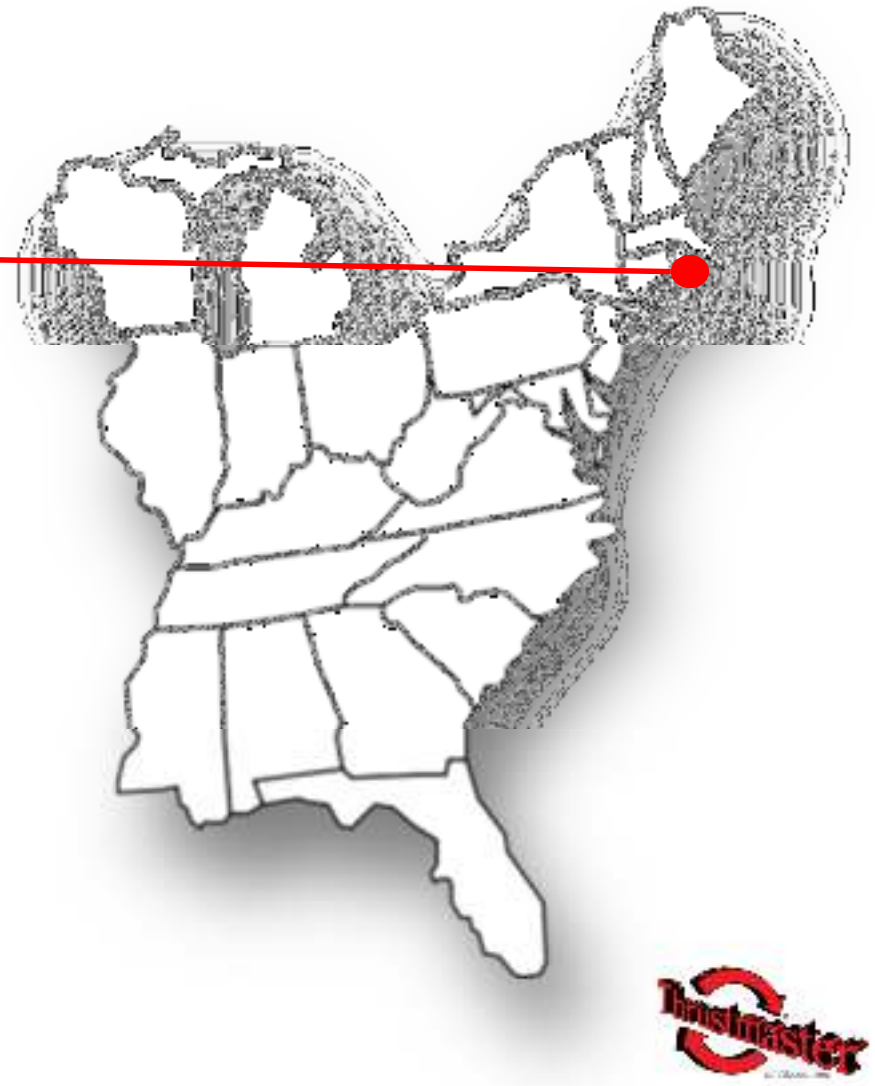
A ROV NAMED ***NEMO***

2 X 300 HP TRANSOM MOUNTED OUTBOARD THRUSTERS, MOUNTED STARBOARD SIDE NEAR THE BOW AND STERN

INTERGRATED WITH A ROBERTSON DP SYSTEM

BIWF - BLOCK ISLAND WIND FARM

BIWF



THE FIRST U.S. OSW FARM

LOCATED 6 MILES OFF THE EASTERN SHORE OF BLOCK ISLAND,RI

5 OSW TURBINES 28 MILES OF CABLES

28 MILES OF CABLES(4 ARRAY/1 EXPORT)

PRODUCING 30MW OF ELECTRICITY

POWERING 17,000 HOME AND BUSINESS

BIG MAX - DUROCHER MARINE

A DIVISION OF KOKOSING INDUSTRIAL

260’ X 72’ X 16’ ABS BARGE

6 X 500 HP MODULAR HYDRAULIC OUTBOARD THRUSTER UNITS

EACH AZIMUTHING THRUSTER WAS OFFSET ON TRANSOM MOUNTED PORCHES, PROVIDING 360° OF ROTATION AND 90° OF VERTICAL LIFT.

PAIRED WITH A K-POS DP-2 SYSTEM

DECK MOUNTED CABLE LAY SYSTEM

TO THE EDGE OF SPACE AND BACK

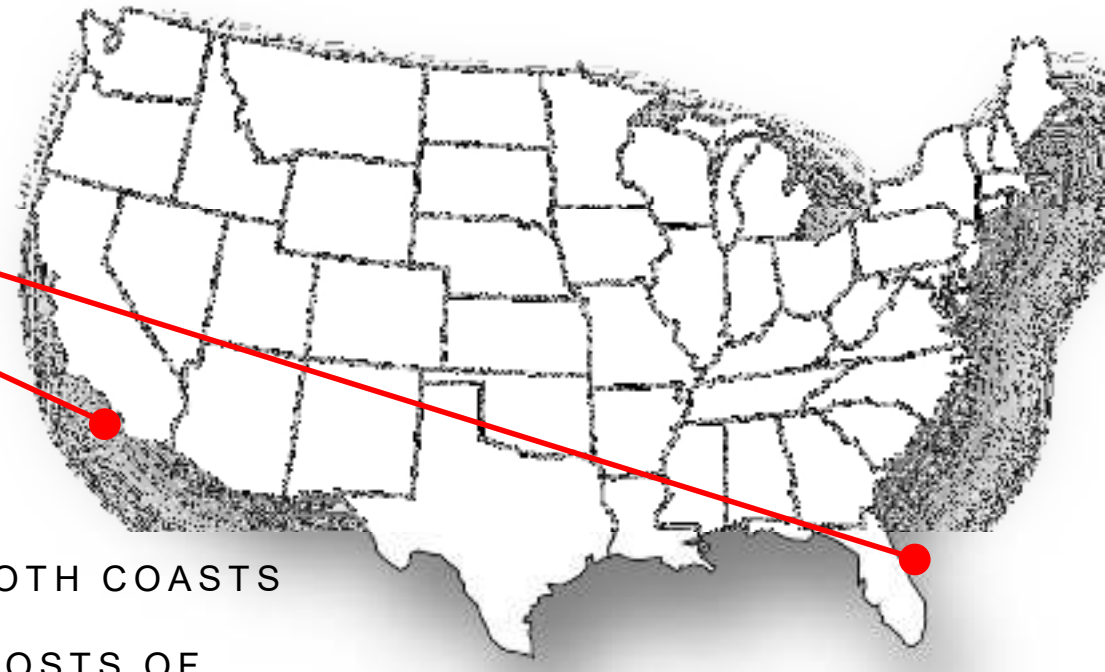
SPACE X

MOBILE MARINE LANDING PAD

3 ASDS - AUTONOMOUS SPACEPORT DRONE SHIPS

SUPPORTING SPACE OPERATIONS ON BOTH COASTS

HELPING TO REDUCE THE OPERATING COSTS OF SPACE EXPLORATION



JRTI – JUST READ THE INSTRUCTIONS

MARMAC 301
300’ X 100’ HEAVY LIFT BARGE

RETROFITTED WITH AN OVERSIZED LANDING PAD

2x1000HP OUTBOARD HYDRAULIC THRUSTERS MOUNTED PORT AND STARBOARD NEAR THE STERN

2x500HP OUTBOARD HYDRAULIC THRUSTERS MOUNTED PORT AND STARBOARD NEAR THE BOW

CONTROL VAN WITH INTEGRATED DP-2 SYSTEM.

THE SYSTEM IS FULLY CAPABLE OF BEING OPERATED FROM ANOTHER VESSEL WITHIN LINE OF SIGHT WHEN TRANSITING AND STATION-KEEPING DURING RECOVERY

VESSELS COME IN ALL SHAPES AND SIZES.
MANY ARE PROJECT SPECIFIC AND OTHERS CAN BE RETROFITTED TO A BE A MULTI-PURPOSE PLATFORM

STEP BACK AND LOOK AT ALL YOUR OPTIONS TO SEE WHAT MAY OFFER THE BEST SOLUTION FOR THE PROJECT

THANK YOU

CHRIS THAYER

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