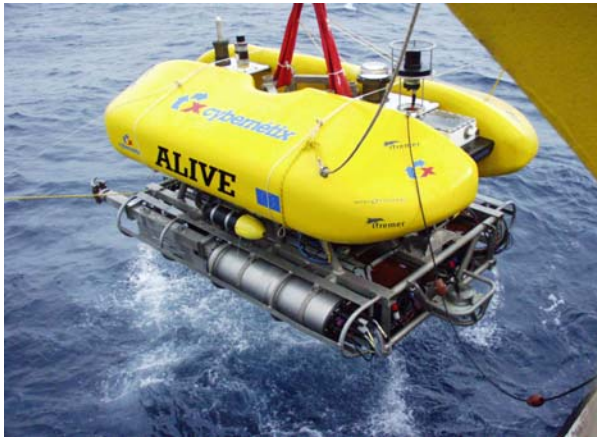


DS-AUV : DEEPWATER ACOUSTIC RIG POSITIONING SUPPORT

AUV - Drilling Support – Light Intervention – LBL arrays deployment – LBL arrays calibration -



DS-AUV is a Rig Support service proposed by **ADVANCED SUBSEA** in cooperation with **ECA**, based on **ALIVE 3000**, a proven Intervention AUV, able to locate, identify a subsea structure, perform **GVI or light intervention**, deploy/ recover **transponders** using Inertial and Acoustic Navigation, Video Dynamic Positioning, Sonar Docking System and Telemanipulation System.

ECA is specialized in Defence & Marine Robotics (ROV,AUV).

ADVANCED SUBSEA SAS, is specialized in DW Survey Construction Support & Acoustic Rig Positioning.

DS-AUV is an Acoustic Rig Positioning Service dedicated to Oil Companies and Drilling Contractors,.

1- DRILLING SUPPORT AUV

Deep Water Drilling operations require the deployment and calibration of a 2,4,5, upto 10 transponders-made LBL acoustic array in order to insure rig station keeping & well spud-in positioning.. These arrays, to be deployed prior to or at least upon arrival on the well location, are used in order to ascertain the quality and safety of station keeping during drilling operation and enable to calculated very accurately the spud-in position at the first stage of Well drilling.

Currently, this task of LBL Array deployment and calibration is performed in critical time directly from the drilling unit using Drilling support ROV or in advance by DP2 ROV Support Vessel, when available on site.,

DS-AUV service saves Rig Time, thus saving a large amount of money.

2- DRILLING SUPPORT AUV SERVICES

AS proposes to perform Rig Transponder Deployment and Calibration tasks prior to the arrival on site of the unit, using an AUV launched directly from the Drilling unit or from a standard Supply Vessel.

DS-AUV services is mobilized on a call-out basis from an Advanced Subsea base in Brasil, West Africa, GOM.

* while Drilling unit is completing the current development well, AUV will be able to proceed to next location and deploy and calibrate the new well acoustic array. When transponder stands are pre-installed, AUV will re-populate stands with transponders and proceed to center of the array in order to perform an integrity check (Calibration check)

* Alternatively, AUV may deploy LBL array upon the arrival of the Rig in the area.

3- EQUIPMENT REQUIRED

AUV, ROV Transducer compatible with Rig Acoustic system, Bathy-system, SV probe.

4- ADVANCED SUBSEA References

* Method development for DW Acoustic Rig Positioning : Saipem 10K, Deepwater Discovery, Stena-T, Leiv Eiriksson - TOTAL E&P 2003 - 2009 , Akpo Field, USAN Field.

*DeepWater Positioning & Survey Expertise for TOTAL E&P 2003 – 2009

Your contact : Jacques Schoellkopf

tel : 33(0)1 42 22 11 76 Email : jsk@advanced-subsea.com