

### 3.3. RECORD OF OPERATIONS



### PROTECTED SPECIES RECORDING FORM OPERATIONS

Regulatory reference number OCS-G 25806  
 Project number UMV04088

Vessel name Discoverer Deep Seas  
 Operations page number 1 of 1

Date	Time pre-shooting visual monitoring began	Time pre-shooting visual monitoring ended	Time pre-shooting acoustic monitoring began	Time pre-shooting acoustic monitoring ended	Was it day or night in period prior to firing?	Reason for firing s = survey t = test x = test followed immediately by survey	Time soft start / ramp-up began	Time soft start / ramp-up ended	Time of start of line / test	Time of end of line / test	Time gun(s) disabled after line / test	Time mitigation gun enabled / source output reduced	Time mitigation gun disabled / end of reduced output	Was any mitigation action required?
2011-09-19	20:00	20:30			day	t			20:30	20:38	20:38			no
2011-09-21			09:30	10:00	night	s	10:00	10:32	10:32					no
2011-09-22										01:48	01:48			no



### 3.4. LOCATION AND EFFORT

**RPS**

PROTECTED SPECIES RECORDING FORM  
**EFFORT**

Regulatory reference number OCS-G 25806  
Project number UMV04088

Vessel name Discoverer Deep Seas  
Effort page number 1 of 1

Date	Visual or PAM	Observers' initials	Start of watch				End of watch				Wind speed (knots)	Wind direction	Beaufort scale	Swell (m)	Visibility (km)	Glare severity
			Time	Latitude	Longitude	Depth (m)	Time	Latitude	Longitude	Depth (m)						
2011-09-19	visual	CP,PK,LB	18:15	26.19108°N	092.13403°W	2010	20:48	26.19108°N	092.13403°W	2010	4	NE	1	<2	>5	moderate
2011-09-21	acoustic	CP	08:00	26.19108°N	092.13403°W	2010	10:45	26.19108°N	092.13403°W	2010	2	NE	1	<2	n/a	n/a
2011-09-21	visual	CP,PK,LB	11:45	26.19108°N	092.13403°W	2010					4	NE	1	<2	>5	severe
2011-09-22							00:25	26.19108°N	092.13403°W	2010						

### 3.5. RECORD OF DETECTION

RPS

#### PROTECTED SPECIES RECORDING FORM DETECTION

<b>Date</b> 2011-09-21	<b>Project number</b> UMV04088	<b>Time at first detection (UTC)</b> 18:10	<b>Time at last detection (UTC)</b> 18:12	<b>Visual detection number</b> 1	<b>Acoustic detection number</b> n/a
<b>Regulatory reference number</b> OCS-G 25806	<b>Vessel name</b> <i>Discoverer Deep Seas</i>		<b>Survey type</b> VSP	<b>Observer(s)</b> [REDACTED]	
<b>Detection was made</b> visually	<b>Detection was first made</b> visually by observer keeping a continuous watch				
<b>Latitude of vessel</b> 26.19108°N	<b>Longitude of vessel</b> 092.13403°W		<b>Heading of vessel (degrees)</b> 267	<b>Water depth (meters)</b> 2010	
<b>Swell height (meters)</b> <2m	<b>Beaufort scale</b> 2	<b>Precipitation</b> none	<b>Visibility (km)</b> >5km	<b>Cloud cover (%)</b> 35	<b>Glare severity and direction</b> moderate from SSW
<b>Common name</b> Loggerhead sea turtle		<b>Scientific name</b> <i>Caretta caretta</i>		<b>Certainty of identification</b> possible	
<b>Total number</b> 1	<b>Number of adults</b> 0	<b>Number of juveniles</b> 1	<b>Bearing to animal(s) when first detected (degrees)</b> 350	<b>Range to animal(s) when first detected (meters)</b> 30	
<b>Description</b> (include features such as overall size; shape of head; color and pattern; size, shape, and position of dorsal fin; height, direction, and shape of blow; etc.)  Olive-green coloration on carapace, animal observed at a distance so difficult to distinguish any other identifying features.			<b>Visual sighting and/or Acoustic detection details</b> (note behavior, especially changes in relation to gun activity and distance from gun array)  Animal observed off forward beam of vessel swimming away. Numerous dorado were observed attempting to predate on the animal due to its small size.		
<b>Direction of travel / first approach</b> (relative to vessel)  away from vessel			<b>Initial compass heading (degrees)</b> 350	<b>Final compass heading (degrees)</b> 350	
<b>Closest distance of animals to aiguns/source</b> (meters) 110m	<b>Closest distance of animals to vessel</b> (meters) 30		<b>Source activity at initial detection</b> full power while on survey line	<b>Source activity at final detection</b> full power while on survey line	
<b>Time at closest approach (UTC)</b> 18:10	<b>Distance during soft start (m)</b> <b>First</b> <b>Closest</b> <b>Last</b> n/a        n/a        n/a		<b>Source mitigation action(s) required</b> none	<b>Strike avoidance maneuvers required</b> no	
<b>Duplicate detection? If yes, provide duplicate detection number</b>  no			<b>Total duration animals observed in exclusion zone (HH:MM)</b> 00:02	<b>Total duration of production loss due to mitigation action (HH:MM)</b> n/a	
<b>Other notes or comments</b>					