S:\oed\Health & Safety\ Blank Forms & Checklists\Risk Assessment Form

RISK ASSESSMENT FORM

Follow HS01 Guidance Document when completing this Form

For Health and Safety Use

Assessment No Vessel DO Revision No 2								
2.1 Subject of Assessment								
"Discover Oceanography" and similar sessions aboard School of Ocean & Earth Science, University of Southampton coastal research vessels.								
2.2 Who is doing the Work								
Vessel crew and demonstrators, with visitor participation (Risk Group RG06, Members of the public).								
2.3 Cruise Number(s) / Location of Work								
RV Callista RV Bill Conway								
2.4 Brief Description of Activity								
Manual deployment and recovery of small, light weight instrumentation. The use of upper deck fitted machinery for the deployment and recovery of instrumentation, towed bodies and sampling equipment.								
2.5 Main Equipment Used								
Winches, A Frames and associated lifting equipment. Capstan and/or crane in the event of failure of the above systems.								

3.0 Hazard Category(ies) – select all hazards that are applicable						
H01 Use of workshop type machinery H02 Possible entanglement in moving machinery H03 Use of hand held/portable power tools H04 Use of hand/foot operated machine tools H05 Use of hand tools H06 Handling of glass H07 Operation of crane/overhead gantry H08 Loads being transported overhead H09 Falls of objects from heights H10 Operation of forklift trucks H11 Manoeuvring of heavy loads H12 Stacking/storing H13 Operation of vehicles H14 Vehicles hitting people H15 Manual handling H16 Work with Display Screen Equipment H17 Office Workstation (computers/printers/ furniture) H18 Repetitive movements H19 Slips/trips/falls of person on same level H20 Falls of persons from heights H21 Collapse of structure H22 Sharp objects	H25 Electric shock H26 Fire from ignition sources (including static electricity) H27 Explosion H28 Contact with molten metals H29 Use of hydraulic/pneumatic systems H30 Use of compressed gases H31 Compressed air H32 Work in extremes of temperature H33 Frostbite/Scalding/Burns H34 Vibration H35 High noise levels H36 Low light levels H37 Fumes H38 Lack of ventilation H39 Work over/near water, liquids H40 Environmental pollution H41 Deck operations H42 Carrying equipment up gangway H43 Use of small boats H44 Use of divers H45 Working with ship rails lowered H46 Near by operations					
H23⊠ Inexperienced staff involvement H24□ Violence	H47⊠ Any other foreseeable hazards not already covered					
4.0 Special Hazards SH01 Use of hazardous chemical substances*1	SH04 Work in confined spaces*2					
SH02 Work on any machinery in motion*2	SH05 Work on live electrical equipment*2					
SH03 Hot work (welding/brazing/flame cutting) *2 *1 Separate COSHH Assessment is required	SH06 Lone/remote working/Out of hours*3					
*2 Permit to Work System/Work Safety Instruction is required	*3 Separate Lone Working Checklist is required					
5.0 Risk Groups (tick who might be affected by your activities, other than those who are doing the work)						
RG01 Cleaners RG02 Maintenance staff RG03 Security RG04 Contractors RG05 Other members of staff RG11 Others (give details):	RG06 Members of the public RG07 Students RG08 Ship borne personnel RG09 Pregnant women RG10 Staff with disabilities					
NOTI Others (give details):						

PLEASE IDENTIFY THE CONTROLS MEASURES TO BE PUT IN PLACE IN THE TABLE OVERLEAF

STAFF WITH MEDICAL OR PHYSICAL CONDITIONS SHOULD ALWAYS DISCUSS THE CONTENTS OF THIS ASSESSMENT AND ANY ADDITIONAL PRECAUTIONS WITH LINE MANAGER OR PROJECT LEADER BEFORE PROCEEDING WITH THE WORK

6.0 Assess the Level of Risk 6.2 (a) Hazard Risk Rating Revised Likelihood =(a) x (b)Consequence 6.3 Further Action Necessary Risk Level Description of activities Haz, 6.1 Controls to be Implemented High High (6 & 9) relating to the hazards 3 Major 3 High No. (Comments) Medium Medium (4) identified 2 Serious 2 Medium Low (1 to 3) 1 Slight 1 Low H M L H M L NOTE The capstan is unlikely to be used except following failure of the vessel winch and A frame systems. Keep area clear of all except essential staff. Only competent crew or operator must operate capstan. Suitable protective clothing must be worn steel toe cap footwear, gloves, boiler suits or Caution and vigilance to be Heaving and veering rope wound 3 Η HO2 2 M on capstan drum. equivalent. taken at all times. Ensure loose clothing and jewellery, including rings with large protrusions, is not worn. Long hair is to be tied back so that it cannot get close to rotating parts. Ensure capstan is kept in good working condition by regular maintenance and

cleaning.

6.0 Assess the Level of Risk

Haz No.	Description of activities relating to the hazards identified	(a) Hazard Consequence 3 Major 2 Serious 1 Slight	(b) Likelihood 3 High 2 Medium 1 Low	Risk Rating = (a) x (b) High (6 & 9) Medium (4) Low (1 to 3) H M L	6.1 Controls to be Implemented	6.2 Revised Risk Level High Medium Low H M L	6.3 Further Action Necessary (Comments)
H07 H08 H11	Loads suspended and moved with deck crane and "A" frame. Load to be suspended via sheave block which is attached to the "A" frame and the use of crane — possible failure of equipment/connectors.	2	2	М	NOTE The crane is unlikely to be used except following failure of the vessel winch and A frame systems. Competent crane driver must assess sea state impact on task before proceeding. A Frame is to be operated only by trained and experienced operators. Ensure no unauthorised personnel enter the rear deck area (Red Zone)*. Ensure all persons stand clear of the area below loads, winch cables and crane. All key lifting points and equipment should have a valid test certificate. Appropriate PPE such as safety shoes, hard hats and overalls should be worn. Suspended loads should be kept as low as possible at all times.	L	A nominated person to watch for potential problems during operation. Comprehensive briefing to cover load movement or retrieval.
H15 H41	Hazards associated with manual handling operations on deck or through labs such as musculoskeletel injury, cuts, abrasions and impacts.	2	2	М	Ensure materials are stored in a manner that minimises the risks of manual handling. Ensure staff are trained in basic manual handling tasks. Ensure adequate lifting and moving equipment is provided. Ensure protective footwear and gloves (if necessary) are worn when manual handling tasks are undertaken.	L	

6.0 Assess the Level of Risk

Haz No.	Description of activities relating to the hazards identified	(a) Hazard Consequence 3 Major 2 Serious 1 Slight	(b) Likelihood 3 High 2 Medium 1 Low	Risk Rating = (a) x (b) High (6 & 9) Medium (4) Low (1 to 3) H M L	6.1 Controls to be Implemented	6.2 Revised Risk Level High Medium Low H M L	6.3 Further Action Necessary (Comments)
Н19	Slipping on wet surfaces. Tripping over equipment on deck and in the labs.	2	2	М	Ensure a high standard of housekeeping is maintained to prevent slips, trips and falls. Keep walkways free of obstructions and spillages. Ensure all visitors are made aware of the potential hazards. As far as is workable due to vessel constraints, storage and work areas are to be kept separate. Ensure that there is adequate heating, lighting and general ventilation. Wearing of non slip, flat footwear is highly recommended.	L	
H22	Cuts from sharp objects in trawl and grab samples.Bites and stings from creatures in trawl and grab samples.	1	1	L	Cuts are likely to be minor. First aid equipment is carried aboard vessels. All vessel crew are fully first aid trained and certified. Crew and demonstrators are to sort samples, identify and remove hazardous items and creatures.	L	
H23	Inexperienced persons onboard	2	2	М	Ensure hazardous tasks are restricted to authorised personnel only. Ensure a full safety briefing is given to all persons aboard, prior to the vessel sailing. Ensure all activities are closely supervised by appropriately trained crew or demonstrators.	L	
H29	Operation of hydraulically powered deck equipment.	2	2	М	Operation of equipment is only to be undertaken by persons who are appropriately experienced and trained to operate such machinery. Ensure all persons are well clear of moving machinery, loads and cables prior to commencing operations.	L	Skippers are to ensure only persons with their authority operate mechinery.

6.0 Assess the Level of Risk

Haz No.	Description of activities relating to the hazards identified	(a) Hazard Consequence 3 Major 2 Serious 1 Slight	(b) Likelihood 3 High 2 Medium 1 Low	Risk Rating = (a) x (b) High (6 & 9) Medium (4) Low (1 to 3) H M L	6.1 Controls to be Implemented	6.2 Revised Risk Level High Medium Low H M L	6.3 Further Action Necessary (Comments)
Н32	Working on deck in cold weather whilst exposed to wind chill. Working on deck whilst exposed to sunlight.	2	2	М	Crew to ensure all persons are made aware of hazard during briefing and to offer advice on how to minimise risk. Crew to monitor participants whilst aboard and watch for signs of over exposure to cold or sun. Sessions for groups aged 17 years or below are NOT to be arranged to take place during December or Janaury.	L	Vessel is always crewed by a minimum of one person who holds a "Medical 1st Aid Aboard Ship" certificate.
H39 H45	Deployment of equipment over the stern or gunwhales.	3	2	Н	Persons deploying equipment over the gunwhales are not required to wear lifejackets unless instructed to do so by a member of the crew. All persons working in the life jacket "red zones" are required to wear lifejackets when the hand rails have been lowered or when instructed to do so by a member of the crew.	L	Equipment is only to be deployed once permission of the helmsman has been granted.
H47	Participants feeling unwell (seasickness) during session	1	2	L	All vessel crew are first aid trained. Situation will be assessed and appropriate action taken.	L	Vessel is always crewed by a minimum of one person who holds a "Medical 1st Aid Aboard Ship" certificate.

* RED ZONES are defined as:

Any area of the vessel where there is no standard height handrail between the work area and overboard

TAB TO THE END OF TABLE TO INSERT NEW ROWS

S:\oed\Health & Safety\ Blank Forms & Checklists\Risk Assessment Form

7.0 Attachments									
7.1 COSHH Assessments ((tick box)	Names of Chemicals/Trade Names (Manufacturer)							
☑ Not Required	☐ Attached								
7.2 Work Safety Instruction	ns/ Permits to Work (tick box)		<u>Titles/Permits to Work Number</u>						
Not Required ■	Attached								
7.3 Lone Working Checkli	ist (tick box)	<u>Titles</u>							
☑ Not Required	Attached								
8.0 Assessor Details (o	8.0 Assessor Details (original assessor)								
Name of Assessor	<u>Signature</u>	<u>Date</u>	Name of Line Manager	Signature	<u>Date</u>				
G Fisher			S Hayward						
9.0 Assessment Review	v								
Name of Reviewer	Date of Review	Reviewers Con	nments	Line Manager's Signature	<u>Date</u>				
10.0 Declaration: I have read, understood and will follow the safety precautions in this assessment and associated documents (To be completed by all workers involved)									
Name	Signature	Date	Name	Signature	Date				
G Blythe	Signature	Date	W Fletcher	Signature	Date				
M MacLean									
K Padley									

Copies of completed Risk Assessments plus attachments should be sent to the Divisional Safety Officer.