



Marine Masters track record highlights

Crane and bridge sections wreck removal

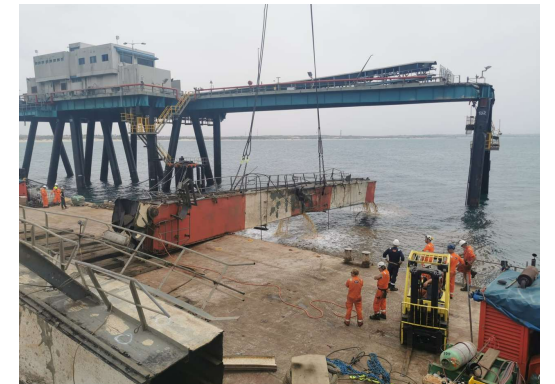
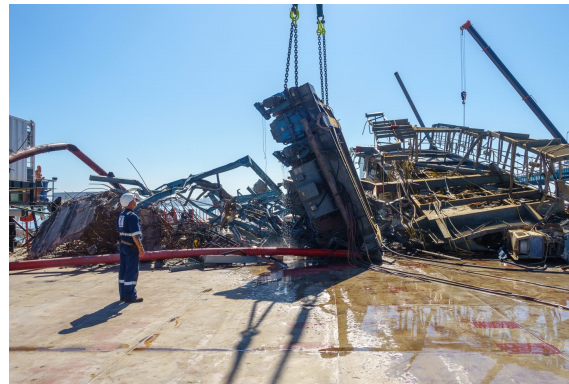
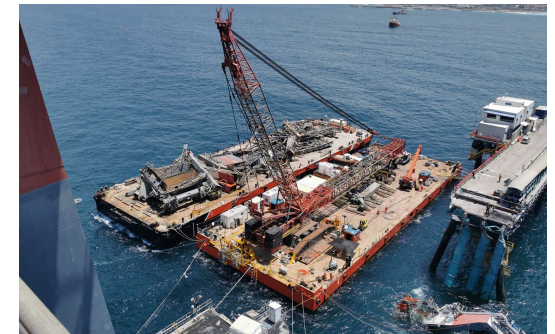
Client: Mer-Terre
Year: 2023 (April to June)
Location: Israel, Ashkelon
Services: Project management and engineering

Project scope:

An extreme weather event in the area of the coal pier in Ashkelon (Israel) resulted in the collapsing of a 1200Mt heavy portal crane and a 300Mt roadway section with pier structure.

Together with Mer-Terre we were contracted to remove the collapsed crane and bridge sections. Within 3 weeks after the incident took place we mobilized a project team including divers and a 500Mt crane-barge to cut and lift out the collapsed crane and bridge in separate sections up to 200Mt.

Marine Masters acted as the subcontractor performing all the engineering in house and managing the complete removal operation. The project removal operation was completed without incidents and well within the tight deadline given by the client.



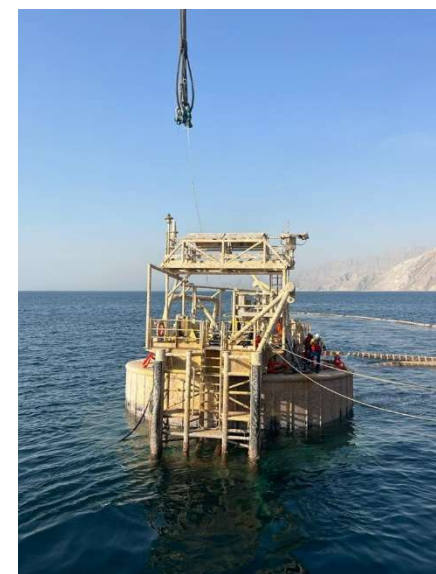
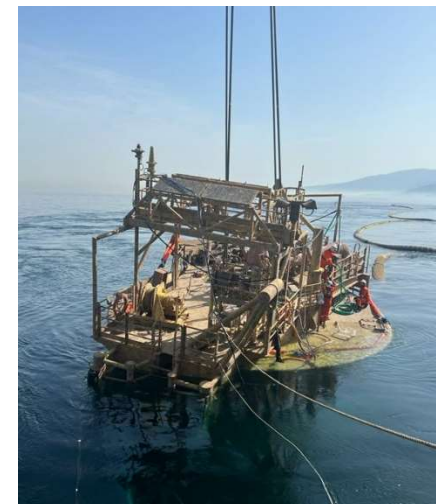
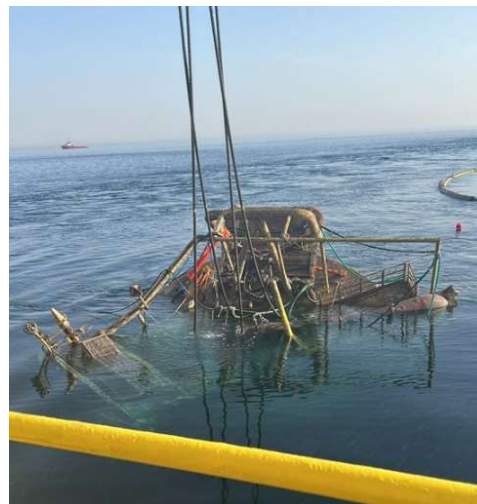
Refloating of CALM buoy

Client: DCN
Year: 2023 (May)
Location: Oman, Musandam
Services: Project management and engineering

Project scope:

Together with local contractors Marine Masters successfully refloated a sunken CALM buoy in the Persian Gulf. The CALM buoy suffered a partial loss of buoyancy and was suspended in a midwater position. All mooring chains and hoses, subsea and floating, were still connected to the buoy.

Marine Masters provided Project Management and Engineering including the preparation of a robust refloating method. The CALM buoy was lifted just above water level, using a heavy lift vessel, to allow for dewatering of the compartments. The CALM buoy was redelivered to Owners without any structural damage to the buoy and its catenary.



SALVAGE OF SALMON FEED BARGE

Client: Bakkafrøst
Year: 2022 (September to December)
Location: Scotland, Portree, Skye Island
Services: Full removal contract

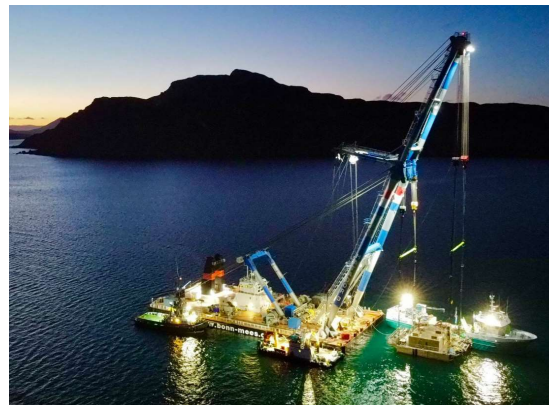
Project scope:

A fish feed barge supplying pellet food to the salmon farm in Portree Harbour, Isle of Skye sank during Storm with 400Mt of feed on board in a water depth of ~35m.

During the preparation campaign we installed lift rigging through the mooring tubes of the barge from a locally sourced multicat. A challenging operation as the barge sank into the muddy seabed, meaning that also the lift rigging was to be pulled through 5m of clay before it was in position. Additionally, the feed on board the barge was starting to decay resulting in toxic and explosive gasses on site.

Subsequently we mobilized a 1800Mt sheerleg from the Netherlands that lifted the 1000Mt heavy feed barge out of the seabed upon surfacing of the its main deck. The seawater and toxic feed were then pumped into a tanker after which the local authorities granted permission to beach the feed barge for further disposal.

Marine Masters acted as the main contractor performing all the engineering in house and managing the complete salvage operation.



SALVAGE OF DONNA PAULA

Client: Formento

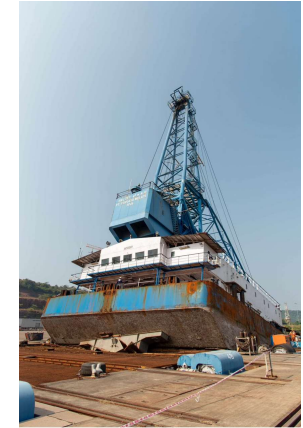
Year: 2021 (September to November)

Location: India, shipyard Lavgan, Jaigad

Services: Project Management and Engineering

Project scope:

Several hoisting beams of the Syncrolift collapsed during lifting operations of the 2200Mt heavy crane barge “Donna Paula” in an attempt to place her on the quay side of Lavgan shipyard for dry docking operations. Marine Masters joined forces with Fagioli and executed a successful jacking operation, using a system of synchronized strand jacks whereby the Donna Paula was safely stabilized and lowered after which she was completely refloated and redelivered along the quayside. The project was executed within the time schedule and to the full satisfaction of the client.



Wreck removal of capsized fishing vessel “Win Far no 161” incl. subsea removal of 350m³ diesel oil

Client: Post & Co
Year: 2021 (Feb to July)
Location: Port of Beira, Mozambique
Services: Full removal Contract

Project scope:

As a priority, we removed the diesel oil from the fishing vessel using our own MM specific hot tap equipment while the casualty was lying on her starboard side. Upon completion, we parbuckled the fishing vessel and refloated the vessel upside-down.

By refloating the vessel in an inverted position we avoided expensive heavy lift equipment which was not available in Mozambique. As a result, this solution was time and cost-effective.

The local authorities granted permission to beach the vessel at high water in the upside-down position for further disposal.

Marine Masters provided the hot tap equipment and complete salvage team to remove the diesel oil and to refloat the fishing vessel. Other salvage equipment was sourced locally.





T&I EAST CENDOR JACKET AND BOAT-LANDING

Client: SPT
End client: Petrofac
Year: 2020
Location: Malaysia
Services: Project Management and Engineering

Project scope:

Marine Masters assisted SPT Offshore with the installation of the Petrofac ECW-A Jacket and boat-landing at the East Cendor field offshore Malaysia. The tri-legged jacket is founded on a suction pile foundation and has a total weight of 1100Mt.

The jacket was lifted, upended and installed in more than 70m water depth with the help of the 5000Mt HLV Asian Hercules III. Due to COVID-19 affecting worldwide vendors and suppliers, the topside was successfully installed after the Monsoon period, i.e. March 2021.



OPHIR PLATFORM DECOMMISSIONING & RELOCATION

Client: SPT
End client: Vestigo
Year: 2019 (March to Sept)
Location: Malaysia
Services: Project Management and Engineering
Project scope:

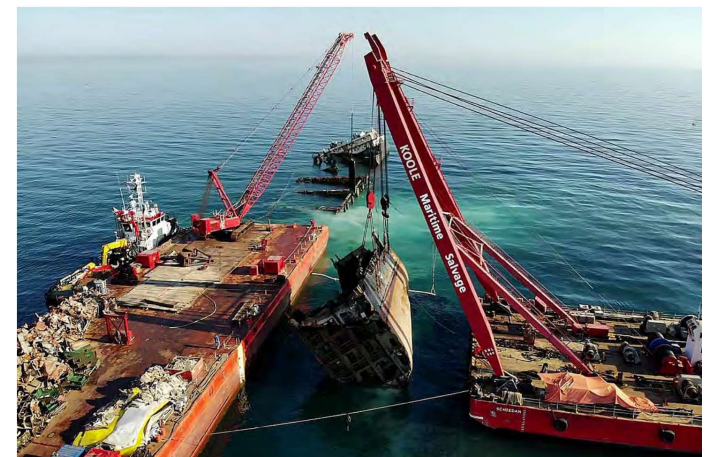
World's first decommissioning and straight relocation of Ophir wellhead platform in One Piece. For this 1500Mt suction pile based jacket a special lifting method was developed which enabled the lifting of the jacket & topside as one lift by means of the 5000Mt HLV "Asian Hercules III". The platform was removed, transported in the hooks and re-installed within record breaking time of 3 days.



SALVAGE OF ATLANTIC PEACH

Client: Koole
Year: 2019 (June to October)
Location: Libya, Mediterranean Sea
Services: Project Management and Engineering
Project scope:

The 5600Mt heavy container vessel Atlantic Peach ran aground in the shallows off Port of Tripoli. Marine Masters joined forces with Koole to cut the vessel into segments after which they were lifted out of the water, placed on a barge and subsequently transported to the disposal yard. All operations were executed within the time schedule and to full satisfaction of the client despite the unpredictable political environment.



CONSTRUCTION ARTIFICIAL REEF

Client: Qatar Port Authorities
Year: 2019
Location: Qatar
Services: Project Management and Engineering

Project scope:

Marine Masters provided expert assistance with a barge scuttling operation. The pontoon, with a length of approx. 45 meters and a width of approx. 25 meters, was towed and precisely submerged to the seabed in the waters off Qatar in order to create an artificial reef on request of the Qatar Port Authorities.

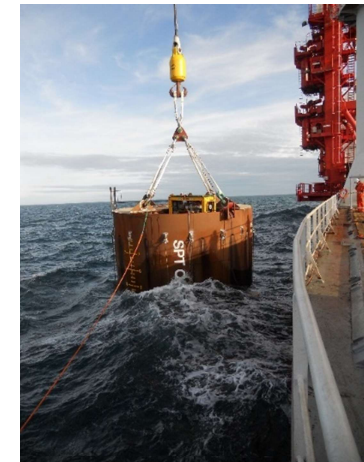


SUCTION PILE INSTALLATION AND REMOVAL ON SEAGREEN WINDFARM

Client: SPT
End client: Seagreen Wind Energy Limited
Year: 2019 (Feb to May)
Location: UK
Services: Project Management and Engineering

Project scope:

Design engineering and fabrication of a trial suction pile for the Seagreen windfarm project. In addition Marine Masters was responsible for the trail testing operations which included installation and subsequential removal of the suction pile in the Seagreen field.

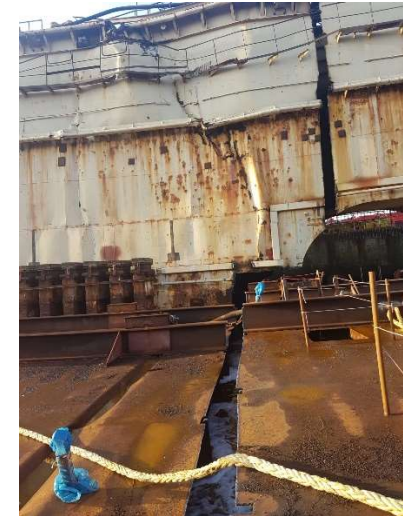


SALVAGE OF DOK 4

Client: Koole
Year: 2019 (August-September)
Location: Netherlands
Services: Project Management and Engineering

Project scope:

In the summer of 2019 Marine Masters teamed up with Koole to executed the salvage operation of the floating 10.000Mt heavy drydock “Dok 4”. The floating dry dock was first cut in two sections after which a Semi sub was precisely positioned under each segment. Then the segments were gradually recovered on deck of the semi sub by synchronized deballasting operations and subsequently transported to the disposal yard.



DECOMMISSIONING F3FA PLATFORM

Client: SPT
End client: Spirit
Year: 2019 (February-October)
Location: Netherlands
Services: Project Management and Engineering

Project scope:

Large FEED study related to the decommissioning of 5000Mt suction pile based MOPU type platform (SIP 2 concept). The study focused on all operational aspects related to the reversed installation method, i.e. jacking down of topside along the 4 legs, set down of topside onto transport barge (float under), press out suction piles and transport to quayside.

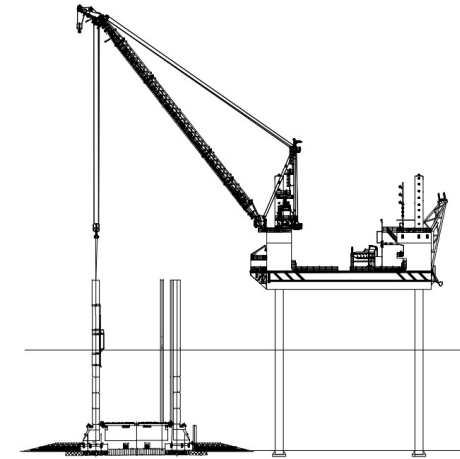


DECOMMISSIONING HALFWEG PLATFORM

Client: Petrogas
Year: 2018 (February-April)
Location: Netherlands, North Sea
Services: Project Management and Engineering

Project scope:

Marine Master, together with Suction Pile Technology (SPT), was responsible for all the Management and Engineering services in the preparation phase for the decommissioning of the self-installable four column Halfweg platform with gravity base structure.



SALVAGE OF AMURIYAH

Client: Mammoet
Year: August 2016 to April 2017
Location: Iraq
Services: Project Management and Engineering

Project scope:

Supertanker Amuriyah burned and sank after being attacked by US Navy jets during the first Gulf War. Together with Mammoet the Amuriyah was cut into 700Mt sections which were then lifted to the surface and backloaded aboard of large flat barges for towage to the disposal yard in Ras al-Khaimah, UAE.



TRANSPORT & INSTALLATION OF OPHIR-A WELLHEAD PLATFORM

Client: SPT
End client: OPSB
Year: 2017 (Feb-April)
Location: Malaysia
Services: Project Management and Engineering
Project scope:

T&I of Ophir wellhead platform. The 1100Mt suction pile based jacket and 350Mt topside were fabricated at Muhibbah yard in period 2016/2017. The jacket was transported horizontally on a barge. Upon arrival the jacket was lifted by 3200Mt HLV Asian Hercules II, upended and installed within 2 days. Subsequently, the topside was transported on separate barge and installed by the AH2 straight after jacket installation.





Marine Masters overall track record

Item	Project Description	MM role	Client	Location	Year
94	Caretaking services Fremantle Highway	Contractor	Underwriter	Netherlands	2023
93	Crane and bridge sections wreck removal	Contractor	Mer-Terre	Israel	2023
92	Refloating of a CALM buoy	Contractor	DCN	Oman	2023
91	Lift and refloating of a sunken feed barge	Contractor	Bakkafrost	Scotland	2022
90	Wreck removal of bulk carrier OS35	Consultant	Port authority	Gibraltar	2022
89	Refloating of Sea Eagle	Consultant	Limakport	Turkey	2022
88	Wreck removal Tresta Star	Consultant	Port authority	Réunion	2022
87	Tow of barge with accommodation topside Ravenna - Klaipeda	Broker	Beluga	Lithuania	2022
86	Wreck removal Ras Tanura V	Consultant	Underwriter	Marocco	2022
85	Ballast engineers for transportation and offshore installation of jackets	Ballast Engineers	Van Oord	France	2022
84	Ship to ship transfer: mooring and transfer services of LPG & oil	STS Superintendent	Transoil	Vlissingen	2022
83	Ship to ship transfer: mooring and transfer services	Mooring Master	LTT Holland	UK	2022
82	Ship to ship transfer: mooring and transfer of LNG	STS Superintendent	Pro-liquid	Rotterdam	2022
81	Cruise vessel escort	Contractor	Artium	Antarctica	2022
80	Consultancy for oil and wreck removal of casualty "Bjungfjord"	Consultant	Underwriter	Denmark	2022
79	Anchor recovery consultant to shipowner	Consultant	Artium	Netherlands	2022
78	Assisting tanker with edible oils discharge	Supervisor	Proliquid	Netherlands	2022
77	Discharge and refloating of casualty "Tomini Prosperity"	Contractor	Underwriter	Russia	2021
76	Ship to ship transfer: mooring and transfer of 3500Mt Polypropylene	Mooring Master	Transoil	Netherlands	2021
75	Ship to ship transfer: mooring and transfer of 30000Mt Naphtha	Mooring Master	Vitol	Spain	2021
74	Ship to ship transfer: mooring and transfer of 40000Mt Condensate	Mooring Master	Shell	Nigeria	2021
73	Emergency drydocking of Chemical Tanker: Shaft pulling and overhaul of shaft bearings, overhaul of Main Engines	Technical Superintendent	ST Management	Martinique	2021
72	Refloating of grounded casualty "Cosco Kunlunshan"	Contractor	Cosco	Cameroun	2021
71	Removal of 350m ³ diesel oil from capsized vessel "Win Far no 161"	Contractor	Post&Co	Mozambique	2021
70	Vessel "Eemslift Hendrika" adrift	SCR	NNPC	Norway	2021



MARINE MASTERS B.V.
TRACK RECORD - OVERALL

Item	Project Description	MM role	Client	Location	Year
69	Removal of wreck "Win Far no 161"	Contractor	Post&Co	Cameroun	2021
68	Refloating of grounded casualty "T moon"	Salvage consultant	Megatugs	Greece	2021
67	Stabilizing listing casualty "Maxima"	Salvage consultant	Wagenborg	Netherlands	2021
66	Refloating of grounded casualty "River Thames"	Salvage consultant	Megatugs	Spain	2021
65	Lift and refloating of stuck casualty "Donna Paula"	Contractor	Formento	India	2021
64	Providing engineering, budget and supervision over the manufacturing and installation of large capacity pumps	Consultant	Boskalis	Singapore	2020
63	Ship to ship transfer: methanol transshipment	STS superintendent	Shell	Nigeria	2020
62	Management and engineering services for the T&I for East Cendor platform	Project management and engineering	SPT	Malaysia	2020
61	Preparation, budget and execution for drydocking of two tankers	Technical superintendent	ST Management	Spain	2020
60	Refloating of grounded casualty "Ultra Regina"	Salvage master/naval architect	WK Webster	Argentina	2020
59	Refloating of grounded casualty "UK 172"	Salvage consultant/SCR	Post&Co	Denmark	2020
58	Refloating of grounded casualty "Mercury Ocean"	Salvage consultant/Naval Architect	WK Webster	Russia	2020
57	Refloating of grounded casualty "Lady Haloum"	Salvage consultant/SCR	MS Amlin	Libya	2020
56	Casualty on fire "Sukran C"	Salvage Master	Mega Tugs	Spain	2020
55	Refloating of grounded casualty "Irma S"	Salvage Master	Mega Tugs	Greece	2020
54	Refloating of grounded casualty "Cosco Kunlunshan"	Salvage Master	Cosco	Cameroun	2020
53	Installation and removal of suctions piles on Seagreen windfarm	Project management and engineering	SPT	UK	2019
52	Transport and installations of an artificial reef	Project manager	Qatar port authorities	Qatar	2019
51	Decommissioning F3FA platform	Project management and engineering	Spirit O&G	Netherlands	2019
50	Decommissioning and relocation of Ophir platform	Project management and engineer	Vestigo	Malaysia	2019
49	Drydock: overhaul of CPP	Technical superintendent	ST Management	Belgium	2019
48	Manufacturing and installation of large capacity pumps	Project Manager	Boskalis	Singapore	2019
47	Removal of Naphtha out of vessel casualty "Nu Shi Nalini"	Salvage Master	LOTS	India	2019
46	Recovery of cargo and containers from casualty "MSC Zoe"	Salvage Master	West of England	Netherlands	2019



MARINE MASTERS B.V.
TRACK RECORD - OVERALL

Item	Project Description	MM role	Client	Location	Year
45	Refloating of vessel "Evangelia M"	Salvage Master	MS Amlin	India	2019
44	Transshipment of casualty "Star Angia"	Salvage Master	Starbulk	India	2019
43	Wreck removal of casualty "Atlantic Peach"	Contractor	Koole BV	Libya	2019
42	Removal of oil and refloating of vessel "Efe Murat"	Contractor	Megatugs	Italy	2019
41	Wreck removal of casualty "Hel 103"	Contractor	Oceas	Poland	2019
40	Inspection of grounded casualty "Crystal Sea"	Salvage consultant	American Club	Sri Lanka	2019
39	Review of Salvors plans and activities of casualty "Natalia"	Salvage consultant	MS Amlin	Turkey	2019
38	Review of Salvors plans and activities of casualty "Emodrada"	Salvage consultant	MS Amlin	Mozambique	2019
37	Review of Salvors plans and activities of casualty "Aulac Fortune"	Salvage consultant	C Solutions	Hong Kong	2019
36	Inspection of grounded casualty "Ou Ya Leng"	Salvage consultant	WK Websters	Marshall Islands	2019
35	Refloating of grounded casualty "Ou Ya Leng"	Contractor	Mumbai Port Authority	India	2019
34	Wreck removal of "Dok 4"	Contractor	Koole BV	Netherlands	2019
33	Inspection of casualty "Sri Lanka Glory"	Salvage consultant	American Club	Sri Lanka	2019
32	Review of salvors plans and activities of grounded casualty "Prosper Sunshine"	Salvage Consultant	Hydor		2019
31	Pilotage, transfer, claim handling for offshore methanol delivery	Marine operations manager	Shell	Nigeria	2018
30	Method Statement, Subcontract Management, Cost Control for Halfweg platform decommissioning	Project management and engineering	Spirit O&G	Netherlands	2018
29	R&D study for grout removal offshore platform	Project engineering	Petrogas	Netherlands	2018
28	Method Statement, Subcontract Management, Cost Control for transport and installation of offshore platform	Marine operations manager	Spirit O&G	West Africa	2018
27	Project management for heavy lift platform modifications	Technical superintendent	Boskalis	Europe	2018
26	Method Statement, cargo discharge and refloating for emergence response of casualty "Inca Queen"	Salvage consultant, naval architect	Undisclosed	Colombia	2018
25	Refloating of casualty "El Venezolas"	Salvage Master	Megatugs	Greece	2018
24	Refloating of casualty "Arslanbey"	Salvage Master	Megatugs	Greece	2018
23	Assessment of casualty "Anganba"	Salvage consultant	WK Websters	Cameroun	2018
22	Refloating of casualty "Nanami"	Salvage Master	Megatugs	Greece	2018



MARINE MASTERS B.V.
TRACK RECORD - OVERALL

Item	Project Description	MM role	Client	Location	Year
21	Owners representative for casualty "Priscilla"	Salvage consultant	Wagenborg	UK	2018
20	Refloating of casualty "Levante S"	Salvage consultant and naval architect	Undisclosed	Qatar	2018
19	Refloating of casualty "Pushing Daisies"	Salvage consultant	Raets Marine	Taiwan	2018
18	Pilotage, transfer, claim handling for offshore methanol delivery	Marine operations manager	Shell	Nigeria	2017
17	Transport and installation of wellhead platform	Project management and engineering	STP	Malaysia	2017
16	Removal of subsea ammunition	Dive supervisor	Ardent	North sea	2017
15	removal of 12 pipes 480 meters and 2,5 meter diameter	Marine operations manager	Dutch Marine Contractors	UK	2017
14	Salvage of jack up "Ribble"	Salvage consultant	MS Amlin	Russia	2017
13	Equipment Maintenance for salvage casualty "Kea Trader"	Salvage engineer	Ardent	New Caledonia	2017
12	Towage of heavily damaged high speed ferry "Swift 2"	Salvage consultant	MS Amlin	Eritrea	2017
11	Ship to Ship transfer casualty "St Gregory"	Marine operations manager	Megatugs	Greece	2017
10	Extinguish fire and towage of casualty "Usichem"	Salvage master	Megatugs	Med	2017
9	Method statement and cost estimation for casualty "Fluvius Tamar"	Salvage master	Deme	North Sea	2017
8	Towage of casualty "Fluvius Tamar" to disposal yard	Salvage master	Ardent	North Sea	2017
7	Supervision over salvor for casualty "Jenin"	Salvage consultant	Undisclosed	Iran	2017
6	Inspection on casualty "Mestre Simao"	Salvage master	Ardent	Azores	2017
5	Supervision over salvor for casualty "Genessa"	SCR	American club	India	2017
4	Removal of casualty "Amuriyah"	Salvage Master	Mammoet	Iraq	2017
3	Cargo removal, underwater operations refloating, re-stowage cargo casualty "Nova Cura"	SCR	P&I, NNPC	Greece	2016
2	Par-buckle refloating casualty "St. Christoph"	Salvage consultant	Braemar	UK	2016
1	ITT, ITT evaluation, follow up wreck removal for casualty "Flinterstar"	Salvage expert	Nautical commission Antwerp	North Sea	2016



Buoy installation projects (period 2016 – 2021)

Location	Client	Task	Equipment	Personnel
Russia/Novorrossisk	CPC/Chevron	installation of two buoys	DSV	Project Management
Russia/Novorrossisk	CPC/Chevron	installation of buoy	DSV	Project Management
UAE/Abu Dhabi	Adnoc	Installation of buoy	DSV/HLV	Project Management
Lithuania	Orlen	Installation of buoy	DSV	Project Management

Buoy management projects (period 2016 – 2022)

Location	Client	Task	Equipment	Personnel
Russia/Novorrossisk	CPC/Chevron	Buoy management, maintenance, mooring, transshipment	Tugs	Management, Divers
Port of Soedan	GNPOC	Buoy management, maintenance, mooring, transshipment	Tugs	Management, Divers
Angola	BP	Buoy management, maintenance, mooring, transshipment	Tugs	Management, Divers
De Kastri	Exxon	Buoy management, maintenance, mooring, transshipment	Tugs	Management, Divers
Lithuania	Orlen	Buoy management, maintenance, mooring, transshipment	Tugs	Management, Divers