

The Dutch offshore

Still going strong



FLYING FOCUS AERIAL PHOTOGRAPHY

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Colophon

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The offshore oil & gas production has always been a remarkable sector to fly for. The flights themselves often represent an operational challenge requiring thorough preparation. Flights are sometimes preceded by dozens of telephone calls, to keep everyone informed and to identify the perfect moment for taking pictures.

And then comes the actual moment at which the shutter closes and I am able to observe situations that remain unknown to so many people, from enormous transport operations far out at sea to

platform installations by massive work rigs.

It is always a challenge to record the perfect picture of this remarkable world

beyond the horizon. The level of interest in the pictures is reflected by the popularity of our photo books about the sector. Part one, 'The Dutch offshore' has sold out and there are just a few cartons of part two 'The Dutch offshore 2010-2013' in the storeroom. In other words, the time is right for compiling part three, with photographs taken over the past two years; years in which booming business gave way to a more reticent approach, given the low oil price.

Fortunately, there is still sufficient activity in the oil and gas fields of the North Sea to justify regular observation flights. After all, the Dutch contribution by ground-breaking innovative businesses is anything but modest.

The Dutch offshore, still going strong!

Herman IJsseling, aerial photographer

September 2015

Offshore sector holds its breath



Crane vessel Rambiz underway for an offshore installation.

Despite the worldwide economic recession, over the past few years the offshore sector has continued to operate at full capacity. In late 2014 and early 2015, however, the situation changed when oil prices on the world market started to slump. As a consequence, oil companies reduced their investments, and postponed or even cancelled new projects entirely. This photo book provides a fabulous overview of projects that were undertaken over the past few years.

In the past few years, above all Dutch companies drew attention with the design and fabrication of advanced mobile drilling units and offshore

support vessels. *GustoMSC*, for example, designed a series of four jack-up drilling rigs of the type CJ70, the largest of their kind in the world, on behalf of Maersk Drilling. Three of these rigs, the *Maersk Intrepid*, *Maersk Interceptor* and *Maersk Integrator* are already active on the North Sea. For its part, IHC Holland designed and fabricated a whole series of state-of-the-art pipelay vessels for Subsea 7 and



Accommodation vessel with Ampelmann Walk-to-Work installation.

heavy transport, Dockwise, themselves drew attention with their new flagship the *Dockwise Vanguard*. This, the world's largest heavy load vessel, was deployed immediately following handover in a series of ground-breaking operations, including the transport of the *Goliat FPSO* and *Armada Intrepid FPSO*. Over the past few years, Vroon Offshore Services has continued unabated with its impressive new-building programme, including platform supply vessels, anchor-handling tug supply vessels, diving support vessels and emergency response and rescue vessels. Smaller Dutch operators including GloMar Shipmanagement,

Sapura Navegação Marítima. Also last year, Allseas launched the world's largest vessel, the *Pioneering Spirit*.

This vessel is not only capable of installing but also retrieving from the sea the very largest offshore topsides and jackets. The same vessel can be deployed for pipelay activities.

Market leaders in

Oil & Gas industry

SITUATION 2015

- GAS
- OIL



Offshore sector holds its breath



Kroonborg transferring people to unmanned platform.



Pioneering Spirit outfitting at ze Maasvlakte,

SeaMar Subsea, Acta Marine and Rederij Groen also took the step of investing in new-building work. In the meantime, Damen Shipyards Group delivered ten supply vessels of the new Damen PSV 3300 CD type, six on behalf of the Norwegian operator World Wide Supply. Wagenborg Offshore launched its innovative Walk-to-Work (W2W) vessel the *Kroonborg*, which was immediately chartered by NAM/Shell to carry out maintenance work on small unmanned oil and gas production platforms in the southern section of the North Sea.

Bluestream Offshore has continued to invest heavily in expanding its ROV fleet. Other remarkable projects were undertaken by Huisman for the development and

fabrication of a whole series of advanced pipelay systems and heavy offshore cranes, and Ampelmann which has now conquered the world with its in-house built and designed Walk-to-Work (W2W) systems. Furthermore, Dutch dredging contractors including Boskalis, Van Oord and Tideway invested in new equipment and completed a series of ground-breaking projects. The same applies for the heavy cargo transporters *Jumbo Shipping* and *BigLift Shipping*.

In the Dutch sector of the North Sea, GDF SUEZ E&P Nederland was highly active in putting gas

fields in the L5 and D18 blocks (Sierra/Orca) into production, as well as an oil field in the Q13 block (Amstel). Total E&P Nederland put the K4-Z gas field into production via a subsea installation, and Wintershall Noordzee opened a gas field in the L6-B block. NAM carried out a major seismic survey in blocks K and L, and Hanza Hydrocarbons did the same in blocks G18, H16, M3 and N1. The jack-up drilling rigs operated by Noble Drilling, that were due to be handed over to Paragon Offshore, were frequently found drilling in the Dutch sector on behalf of GDF SUEZ, Total, Wintershall, Petrogas and TAQA, and a series of new jack-ups drilling rigs joined the fleet operating in the North Sea. In addition to the already



Heavylift vessel underway with FPSO.

mentioned brand-new Maersk rigs, the Noble Sam Turner and Noble Regina Allen, as well as the ENSCO 122 carried out work in the Dutch sector of the North Sea. Chevron transferred its interests in this sector to Petrogas, and Tullow Oil passed on its fields to GDF SUEZ E&P Nederland which company continued its operations under the name ENGIE, from April 2015 onwards.

One new segment in the offshore sector that is really starting to take off is the decommissioning of old offshore installations, above all in the English sector of the North Sea. Heerema Marine Contractors (HMC) has for example been

contracted for removing the huge Murchison production platform from the North Sea. HMC had already acquired considerable experience with this type of work, in the Ekofisk gas field in the Norwegian sector. Allseas Marine Contractors are also set to become major players in this new segment. The company's brand-new *Pioneering Spirit* will be removing four enormous topsides and one jacket from Shell's Brent platforms in the English sector of the North Sea, together with the Yme platform from the Norwegian sector. Elsewhere, on behalf of HMC, the world's largest semi-submersible crane vessel is currently under construction. This vessel will be equipped with two Huisman cranes, each with a lifting capacity of 10,000 m/tonnes, and she too is expected to play an important role in this segment.

The Dutch offshore sector, in particular the engineering firms, marine contractors, heavy lift transporters, yards, shipping companies and suppliers continue to achieve successes and have managed to maintain their leading positions in their respective market segments, thanks to their innovating spirit and flexibility. The slashing of the world oil price by half has however caused all parties to hold their breath, despite the fact that in past oil crises, these companies succeeded in overcoming the prevailing difficulties, and coming back even stronger. This photographic record, at least, is yet another opportunity to enjoy the spectacular events taking place out at sea, beyond the horizon.

Paul Schaap

July 7, 2013 – The monohull crane vessel *Oleg Strashnov* from Seaway Heavy Lifting, equipped with a 5,000-tonne revolving crane, having installed the 1,100-tonne jacket of the Q13a-A oil production platform on behalf of GDF SUEZ E&P Nederland, just to the west of Scheveningen.





July 22, 2013 – The dp2 fall pipe vessel *Tideway Rollingstone* from Tideway was deployed to prevent scouring of the seabed around the new Q13a-A platform operated by GDF SUEZ E&P Nederland. The 139 metre-long *Rollingstone* has a payload of almost 12,000 tonnes of rock for dumping.



October 3, 2013 – The 146.5 metre-long pipelay vessel *Lewek Centurion* owned by offshore contractor EMAS hard at work laying the pipeline from the existing P15 platform complex to the new Q13a-A oil production platform for GDF SUEZ E&P Nederland.



October 3, 2013 – During the laying of the pipeline between the P15 and Q13a-A platforms, the pipelay vessel *Lewek Centurion* was assisted by the dp2 multipurpose support vessel *Astrea*. For this task, the *Astrea*, chartered by N-Sea, was specially equipped with ROVs and survey equipment.

February 1, 2014 – On behalf of GDF SUEZ E&P Nederland, the jack-up rig Noble Piet van Ede is seen here drilling production wells for the Q13a-A platform. The platform supply vessel *Far Splendour* was responsible for delivering supplies from the port of Den Helder.





December 6, 2013 – On Friday 6 December 2013, the safety standby vessel *VOS Tracker* from Vroon Offshore Services overcame huge waves to the west of Den Helder. The 48 metre-long vessel, handed over in 2007 by the Damen Shipyards Group, is capable of retrieving 125 people from the sea.



September 26, 2013 – The brand-new platform supply vessel *World Diamond* alongside the P11-B De Ruyter oil production platform. The *World Diamond* is one of the six Damen PSV 3300CD type suppliers built by the Damen Shipyards Group for the Norwegian operator World Wide Supply.

July 28, 2013 – Using the four-legged self-elevating jack-up platform Seafox 1 chartered from Workfox, Perenco UK carried out maintenance work on the platforms in the Lemnabank field in the southern UK North Sea sector.



August 8, 2013 – For the Mittelplate oil drilling and production platform in the German section of the Wadden Sea, supply work and crew changes were undertaken by a series of vessels operated by Acta Marine. The photograph shows the supply vessels *Coastal Liberty*, *Sara Maatje X* and *Coastal Legend*. On the deck of the *Sara Maatje X* is the crew tender *Coastal Flash*.





October 28, 2013 – The platform supply vessel *F.D. Invincible* owned by the Italian operator Rosetti Marino based in Ravenna, was spotted on the North Sea, to the west of Den Helder. Chartered by Peterson Den Helder, the *F.D. Invincible* is responsible for supply work in the Dutch sector of the North Sea.



May 1, 2014 – The self-elevating jack-up platform Seafox 2 operated by Workfox is seen here alongside Total E&P Nederland's F15-A gas production platform. Maintenance work is underway on the platform. The safety standby vessel *Linde-G* operated by Rederij Groen from Scheveningen is visible in the foreground.



March 8, 2014 – The 106 metre-long diving support vessel *Skandi Achiever* operated by French contractor Technip is seen here working at NAM's L13-FE-1 satellite platform in the Dutch sector of the North Sea. The platform is used for the production of gas from the L13 block.



June 4, 2014 – One of the largest semi-submersible crane vessels is photographed here lifting a compressor module from the deck of COSCOL's heavy transport vessel *Kang Sheng Kou*. The module was previously fabricated at a yard in the Far East, and transported to the Norwegian sector of the North Sea in just four weeks, by the *Kang Sheng Kou*.



May 3, 2014 – In the summer of 2014, major maintenance work was carried out on the Shell platform complex in the Leman field in the British sector of the North Sea. Venko was responsible for the paintwork on the platforms.



May 3, 2014 – During the course of 2014, the four-legged jack-up drilling rig GSP Saturn, owned by Grup Servicii Petroliere (GSP) from Constanta in Rumania, carried out work in the North Sea for Wintershall and other operators. The photograph shows the drilling rig in the port of IJmuiden, waiting for new drilling orders.



June 4, 2014 – The 195 metre-long semi-submersible heavylift and transport vessel *Xia Zhi Yuan 6* owned by COSCO Heavy Transport en route from Rotterdam to Northern Russia, carrying the jack-up drilling rig GSP Saturn.



July 27, 2014 – The dp 2 heavylift vessel *Fairplayer*, owned by Jumbo Offshore, hard at work installing a mooring system at sea. This job was carried out in the Greater Stella Area in the central section of the North Sea on behalf of Ithaca Energy.



October 7, 2014 – An impressive photograph taken in the Caland Canal in the Europoort area of Rotterdam, with two huge offshore support vessels owned by Heerema Marine Contractors. On the left, the semi-submersible deepwater construction vessel *Thialf* and on the right the semi-submersible crane vessel *Hermod*.



January 8, 2015 – The largest vessel in the world, the *Pieter Schelte*, owned by offshore contractor Allseas, made her maiden visit to the Netherlands on Thursday 8 January 2014. This photograph was taken at Hook of Holland. The 382 metre-long and 124 metre-wide vessel is capable of installing ultra heavy topsides and jackets at sea and subsequently removing them, at the end of their useful life. The vessel can also be deployed for pipelaying work.



June 4, 2015 – The *Pioneering Spirit*, formerly the *Pieter Schelte*, owned by Allseas, being outfitted at the Prinses Alexiahaven on the Second Maasvlakte. The harbour was dredged to a greater depth specifically for this work. On this photograph, the first 65 metre-long beams of the lifting system are already installed on the foreship.



May 5, 2014 – The jack-up drilling rig Noble Lynda Bossler operated by Noble Drilling is seen here drilling by the wellhead platform of the P15 Rijn oil and gas production complex operated by TAQA, just west of Scheveningen. The supply vessel *Skandi Waveney* is moored alongside the rig.



December 28, 2014 – At the modern supply base on the Paleiskade in Den Helder, platform supply vessels from the Southern North Sea (SNS) Pool come and go at regular intervals. The fleet of between fifteen and twenty supply vessels is managed by Peterson Den Helder.



March 3, 2015 – An exceptionally busy day in Den Helder's outer harbour. Large numbers of offshore vessels are visible here, moored at the Paleiskade and Nieuwediepkade. As well as the various suppliers, the ships on the photograph include a seismic research vessel, a diving support vessel and a drillship.



November 2, 2014 – Fugro’s brand-new multipurpose survey vessel *Fugro Pioneer* at work north of the Wadden Island of Terschelling. The 53 metre-long vessel has diesel-electric propulsion, a special hull design and is equipped with state-of-the-art survey equipment.



October 18, 2014 – At the end of 2014, Fugro Marine Services deployed its geotechnical drillship *Bucentaur* in the North Sea. On this photograph, the 77 metre-long vessel is seen sailing west of IJmuiden. The *Bucentaur* is able to carry out survey work to a maximum water depth of 1,500 metres.



April 1, 2015 – The Norwegian supply vessel *Rem Mermaid*, operated by Rem Offshore, is deployed by GDF SUEZ E&P Nederland as a maintenance vessel for offshore platforms. To allow safe passage of maintenance personnel from a moving ship to a fixed platform, the work deck is equipped with a so-called swell compensating Offshore Access System.



August 20, 2015 – Starting in early 2015, the self-propelled self-elevating accommodation vessel *GMS Endeavour* carried out maintenance work on platforms in the Dutch sector of the North Sea on behalf of Total E&P Nederland. The photograph shows the *GMS Endeavour* alongside Total's K6-C central complex.

August 20, 2015 – The 76 metre-long *GMS Endeavour* operated by Abu Dhabi-based Gulf Marine Services is seen here on its four 94 metre-long legs alongside Total's K6-C central complex. Crew changes are undertaken by helicopter.



July 29, 2015 – In stormy weather, the platform supply vessel *Highland Challenger* owned by GulfMark UK Ltd is seen here battling a passage through high waves on the North Sea, after leaving her operating base Den Helder. The vessel of the type UT 755 is part of the Southern North Sea (SNS) Pool managed by Peterson Den Helder.







November 23 - 2013 – At the end of 2013, the Den Helder based company Bluestream Offshore deployed the Norwegian diving support vessel *Stril Explorer* owned by Simon Møkster Shipping, on the North Sea. On the photograph, subsea work is being carried out in the Dutch sector of the North Sea close to the D15-FA-1 gas production platform.



July 29, 2015 – In 2015, Bluestream Offshore chartered the *Stril Server*. The futuristic design of this more than 85 metre-long Norwegian diving support vessel, with a diesel electric propulsion system and class 2 dynamic positioning, is a real eye-catcher. This photograph was taken just to the west of Den Helder.



July 29, 2015 – The *Paragon C20052* (formerly the *Noble Byron Welliver*) undertaking a rigmove in the Dutch sector of the North Sea. The leading tug is the 7,370 bhp *Zeus* operated by Alfons Håkans, assisted by the *Bever* (left) from Iskes Towage & Salvage and the *Bugsier 20* operated by Bugsier-, Reederei- und Bergungs- Gesellschaft.

July 12, 2014 – The supplier *Highland Challenger* from GulfMark UK Ltd delivering a number of containers to a jack-up drilling rig operated by Noble Drilling. The rig is adjacent to the mini satellite platform M7-A operated by Cirrus in the M7 block in the Dutch sector of the North Sea.





January 9, 2015 – Skipping over the waves during a severe storm, the platform supply vessel *Skandi Waveney* from the Norwegian operator DOF is seen here forging a passage towards her base of operations in Den Helder. This supplier of the well-known type UT 755L is yet another member of the fleet of the Southern North Sea (SNS) Pool.



March 25, 2015 – The brand-new Walk-to-Work (W2W) vessel *Kroonborg* operated by Delfzijl-based Wagenborg Offshore has been chartered for a 10-year period by NAM/Shell to carry out maintenance work on unmanned oil and gas production platforms in the southern section of the North Sea, such as the Brig satellite platform featured on this photograph. For the safe transfer of maintenance personnel, the *Kroonborg* is equipped with an Ampelmann W2W system.



May 8, 2015 – In the Caland Canal in Rotterdam’s Europoort area, the *Dockwise Vanguard*, the world’s largest heavylift and transport vessel, took on board the *FPSO Armada Intrepid*, via the float-on method. The *Dockwise Vanguard* subsequently delivered the *FPSO* to Labuan in Malaysia.



April 11, 2015 – The *Dockwise Vanguard*, the flagship of Royal Boskalis subsidiary Dockwise, en route from South Korea to Hammerfest in Norway. On deck is the 65,000-tonne Goliat FPSO operated by Eni Norge. The journey via the Cape of Good Hope, over a distance of 15,700 miles, took just 63 days. This photograph was taken on the Atlantic Ocean, to the west of Ireland.



November 28, 2013 – The Vroon Offshore Services platform supply vessel *VOS Base* has just visited the K5 central complex operated by Total E&P Nederland in the Dutch sector of the North Sea. The platform complex is supplied from Den Helder.

October 22, 2014 – One of the older safety standby vessels in the Vroon Offshore Services fleet is the *VOS Ruler*, built in 1982. It is still clearly visible that this standby vessel was previously a fishing boat, that was converted to a safety standby vessel in 1997, and has since that time been deployed in the service of the offshore sector in the North Sea. This photograph was taken 40 miles northwest of the Wadden Island of Texel.



August 28, 2015 – While the now obsolete gas treatment installation was removed from the L13-FC-1 gas production complex operated by NAM, and the remainder of the installation was painted, the flexible fallpipe vessel *Nordnes* from Van Oord made a start on applying a blanket of dumped rock on the gas pipeline between L13-FC-1 and L13-FE-1.





July 27, 2014 – The 151 metre-long survey, installation and trenching vessel *Calamity Jane* operated by Allseas Marine Contractors in the L8 block in the Dutch sector of the North Sea, working close to the L8-P4 gas production platform operated by Wintershall North Sea.



September 8, 2014 – In mid-2014, Den Helder-based SeaMar Subsea launched the state-of-the-art diving support vessel *Deep Helder*. The vessel, built in the Netherlands at the De Hoop shipyard in Foxhol was immediately chartered for a multiyear contract to DeepOcean. On this photograph, the *Deep Helder* is seen in the foreground, close to NAM's L15-FA-1 gas production platform.



July 27, 2014 – The jack-up drilling rig Noble Ronald Hoope operated by Noble Drilling is pictured here carrying out drilling work close to the gas production platform L15-FA-1 operated by NAM in the L15 block in the Dutch sector of the North Sea. In front of the drilling rig is the supply vessel *VOS Prominence* operated by Vroon Offshore Services.



July 15, 2014 – After the Noble Ronald Hoopce had drilled a well at the L15-FA-1 gas production platform, the well underwent extensive testing. The gas produced during testing was flared off, resulting in this magnificent photograph.

April 9, 2015 – The brand-new seismic research support vessel *7-Stars* operated by Scheveningen-based Rederij Groen is photographed here just to the northwest of Scheveningen. This 35 metre-long vessel is the latest in a series of three support vessels handed over by the Maaskant Shipyard. The two other vessels, completed in 2013, were christened *7-Oceans* and *7-Waves*, respectively.





January 10, 2014 – The jack-up drilling rig Noble Regina Allen just delivered to Noble Drilling is seen here preparing for her very first drilling contract in the Dutch sector of the North Sea, in IJmuiden's IJmondhaven. The contract involved drilling work at GDF SUEZ E&P Nederland's L5a-D platform.



February 6, 2014 – The jack-up drilling rig Noble Regina Allen is photographed here drilling the first gas production wells for the GDF SUEZ E&P Nederland L5a-D gas production platform, just installed in the sea 45 miles northwest of the Wadden Island of Terschelling. The drilling rig is of the type Friede & Goldman JU3000N, and was fabricated at the Jurong Shipyard in Singapore.



May 30, 2014 – This photograph was taken during the rigmove of the jack-up drilling rig Noble Sam Turner operated by Noble Drilling, en route to Esbjerg, just west of the Wadden Island of Texel. Leading tug is the 7,370 bhp Zeus operated by Alfons Håkans assisted on the left by the 6,400 bhp rotortug RT Magic from Kotug and on the right the 7,208 bhp tug Vortex owned by Rederi Østenjø.



March 3, 2015 – One of the world's largest seismic research vessels, the *Ramform Atlas*, visited IJmuiden in March 2015. The most notable feature of this 104 metre-long and 70 metre-wide vessel is the shape of her hull. The *Ramform Atlas* operated by PGS is capable of pulling 24 streamers, twice as many as a conventional seismic research vessel.



March 1, 2014 – In this photograph, the *VOS Prominence* operated by Vroon Offshore Services can be seen supplying the large K14-FA-1 gas production complex operated by NAM, in the K14 block in the Dutch sector of the North Sea. The supplier is part of the Southern North Sea (SNS) Pool managed by Peterson Den Helder.



May 18, 2014 – On this photograph, the supplier *VOS Prominence* is delivering cargoes to the large Ameland Westgat (AWG-1) gas production complex operated by NAM. This complex has been operating in shallow water just off the northern coast of the Wadden Island of Ameland, since 1985.



June 4, 2015 – A busy day at the Wiltonhaven in Schiedam, close to the Huisman yard. Two offshore construction vessels already equipped with a Huisman pipelay system are visible at the back of the harbour. On the offshore vessel in the foreground, a large offshore crane has just been installed. The floating shearlegs *Matador 3* is seen lifting part of the stinger.



May 23, 2015 – The supply vessel *Highland Monarch* operated by GulfMark UK Ltd delivering a number of containers to Unocal's gas production platform L11B-PA and the adjacent jack-up rig Paragon C461 (formerly Noble Lynda Bossler) operated by Paragon Offshore, in block L11 in the Dutch sector of the North Sea.



July 31, 2015 – The jack-up rig Paragon C461 is seen here close to Unocal's L11B-PA gas production platform. In the foreground is the fast aluminium crewtender *Hurricane*, a vessel that maintains a tender service on the North Sea, above the Wadden Islands.

July 29, 2015 – Just to the west of Den Helder, the tug *André-B* operated by BMS Towing from Zierikzee is photographed here ploughing through the waves en route to the rigmove of the Paragon C461. This multipurpose tug delivers a bollard pull of 50 tonnes, and is the largest of the four tugs in the fleet of this Zeeland-based operator.





July 31, 2015 – Towed by three tugs, including the 7,200 bhp tractor tug *Thorax* from Rederi Østensjø, the jack-up drilling rig Paragon C461 (formerly the Noble Lynda Bossler) is carefully positioned alongside Unocal's L11B-PA gas production platform.



July 31, 2015 – The three tugs involved in the rigmove of the Paragon C461 together delivered a bollard pull of 200 tonnes. Rigmoves are only undertaken in good weather conditions.

August 4, 2015 – The Damen Fast Crew Supplier 2610 *Merel-G* operated by Rederij Groen from Scheveningen is one of the first vessels of this type to be deployed as a crewtender and standby vessel, in the offshore sector. On this photograph, the *Merel-G*, chartered to Wintershall, is seen passing the Kotter oil production complex, located in the K18 block.





January 9, 2015 – Heaving wildly, the platform supply vessel *VOS Precious* is photographed here smashing a passage through a bumpy North Sea, to the southwest of Texel. The vessel of the type UT 755LN and owned by Vroon Offshore Services from Den Helder, was at the time part of the fleet of the Southern North Sea (SNS) Pool.



April 4, 2015 – The installation by Boskalis Offshore of the fully renovated *FPSO EnQuest Producer* in the Alma/Galia oil field in the British sector of the North Sea. The *EnQuest Producer* is 249 metres long and has a production capacity of 57,000 barrels of oil per day, and space to store 625,000 barrels of oil.



April 18, 2015 – To ensure the safe mooring of the *EnQuest Producer* and the connection of the subsea oil wells, Boskalis Offshore deployed a series of offshore vessels. These included the diving support vessel *EDT Protea*, chartered for a number of years, and appearing in the foreground of this photograph.

August 28, 2015 – The large jack-up drilling rig Paragon C20051 (formerly the Noble Al White) operated by Paragon Offshore is photographed here close to Total E&P Nederland's satellite platform L7-PN. At this gas production platform, installed in 1988, major maintenance work is underway.





August 28, 2015 – Near the K2b-PA gas production platform operated by GDF SUEZ E&P Nederland, the jack-up drilling rig Paragon C462 (formerly the Noble Piet van Ede) owned by Paragon Offshore is photographed here carrying out drilling work. The satellite platform in the K2 block was installed at sea in 2005.



August 28, 2015 – The newly completed jack-up drilling rig ENSCO 122 operated by drilling contractor ENSCO is seen here drilling a well at NAM's K14-FA-1 gas production complex, with extended cantilever. The drilling rig is supplied by the supplier *Pool Express* operated by Vroon Offshore Services. The ENSCO 122 has been chartered by Shell.



August 28, 2015 – As her name suggests, the pride of GloMar Shipmanagement from Den Helder, the *Glomar Pride*, is deployed as a safety standby vessel. The 42 metre-long vessel offers accommodation for more than 100 survivors retrieved from the sea. In the background, the drilling rig Paragon C20051 near Total's L7-PN satellite platform.

April 16, 2015 – For the third time in succession, the heavylift and transport vessel *Hawk* operated by Offshore Heavy Transport from Norway is seen here transporting a brand-new jack-up drilling rig from Singapore to Norway. On this occasion, the Maersk Integrator from Maersk Drilling, one of the largest jack-up drilling rigs in the world, built according to a Dutch design.





July 19, 2014 – The diving support vessel *Seamar Splendid* operated by SeaMar Shipping from Den Helder is deployed by Bluestream Offshore for inspection, repair and maintenance work on the platforms owned by GDF SUEZ E&P Nederland, in the Dutch sector of the North Sea. In this photograph, the vessel is moored alongside the G17d-AP gas production complex.

June 6, 2014 – Hoisted aloft by the crane vessel *Rambiz* operated by Scaldis Salvage & Marine Contractors, the mini gas production platform L6-B owned by Wintershall Noordzee is photographed here en route for installation in the L6 block. This unmanned working platform is mounted on the seabed using suction piles from SPT Offshore.



July 23, 2014 – At the start of 2014, Nordic Maritime based in Singapore launched the brand-new multipurpose offshore support vessel *Mokul Nordic*. The 75 metre-long vessel was rapidly sailed to Western Europe. On this photograph, the *Mokul Nordic* is working as diving support vessel alongside the Wintershall Noordzee L6-B mini platform.





May 27, 2015 – In 2013, on behalf of Chevalier Floatels, the former ferry *Simara Ace* was converted at Holland Shipyards into an accommodation vessel and rechristened *DP Gezina*. To ensure the safe transfer of personnel, the vessel has been equipped with an Ampelmann W2W system. In this photograph, the vessel is moored alongside the L6-B mini gas production platform operated by Wintershall Noordzee.



October 22, 2014 – Wintershall Noordzee rented out the new jack-up drilling rig ENSCO 121 operated by drilling contractor ENSCO, to drill the gas production wells for the L6-B mini gas production platform. The platform is now operating unmanned, and is remotely operated from the central control room in Den Helder.



July 31, 2015 – In December 2013, Heerema Marine Contractors launched the newly completed anchor handling tug *Kolga*. This 72 metre-long oceangoing tug was built at Astilleros Armon in the Spanish city of Vigo. The *Kolga* is deployed to assist HMC large crane vessels, and delivers a bollard pull of 202 tonnes.



October 22, 2014 – The safety standby vessel *VSO Rambler* operated by Vroon Offshore Services based in Den Helder is seen here working close to a drilling rig, 50 miles northwest of the Wadden Island of Texel. Oil companies are required to deploy a safety standby vessel whenever carrying out drilling work on the North Sea.

June 24, 2014 – In 2011, NAM signed a multiyear charter for the high-tech offshore mobile drilling unit Swift 10 operated by Swift Drilling based in Den Helder. The unit is equipped with a fully automatic drilling system. This photograph shows the Swift 10 drilling near NAM's monopile platform L9-A. In the foreground is the supplier *Highland Citadel*.





May 27, 2015 – Via the flare boom on the rig Swift 10, gas is flared as part of the testing of a gas production well at NAM's monopile L9-A mini platform, 30 miles north of the Wadden Island of Texel.

August 28, 2015 – Workfox's accommodation platform Seafox 4 is seen here alongside the L9-A monopile mini platform operated by NAM. Solar panels have been installed on the top deck, to generate electrical power. In front of the platforms is the supply vessel VOS Base operated by Vroon Offshore Services.





April 12, 2015 – The self-propelled self-elevating accommodation vessel GMS Endeavour 6101 operated by Abu Dhabi-based Gulf Marine Services (GMS) was deployed to carry out maintenance work on the LOGGS platform complex for operator ConocoPhillips in the southern section of the British sector of the North Sea.



June 30, 2015 – Anchor handling tugs, including the almost 11,000 bhp *Carlo Martello* owned by the Italian operator Augustea, were regularly deployed for rigmoves involving large semi-submersible drilling rigs in the northern section of the North Sea. The *Carlo Martello*, a seagoing tug of the type type UT 514L has a bollard pull of 156 tonnes. This rigmove was carried out under the supervision of MCS.

July 29, 2015 – To the west of Den Helder, the safety standby vessel *Glomar Scout* operated by GloMar Shipmanagement from Den Helder is seen here ploughing through the waves. The former fishing vessel was converted into an offshore support vessel in 2007.





June 30, 2015 – Since 2000, the small Skiff platform has been operated in the southern section of the British North Sea sector. For maintenance on this unmanned platform, Shell UK called in the brand-new W2W vessel *Kroonborg*, operated by Wagenborg Offshore.



June 30, 2015 – The supplier *Pool Express* operated by Den Helder-based Vroon Offshore Services is seen here supplying the L13-FC-1 gas production complex for operator NAM. The *Pool Express* is part of the Southern North Sea (SNS) Pool managed by Peterson Del Helder.



August 28, 2015 – The safety standby vessel *Glomar Endurance* from GloMar Shipmanagement based in Den Helder is photographed here patrolling during drilling work around the jack-up drilling rig ENSCO 122 and the K14-FA-1 platform complex owned by operator NAM.



September 6, 2015 – This photograph shows work underway on the extensive redeployment upgrade of Teekay's FPSO Petrojarl 1, at Damen Shiprepair Rotterdam. The vessel has been operating in the North Sea since 1986, and is set to start a second career in the Atlanta field off the coast of Brazil.



September 3, 2015 – The oil production platform P9 Horizon operated by Unocal is supplied by the Norwegian platform supply vessel *Skandi Waveney* from DOF. This vessel is part of the Southern North Sea (SNS) Pool that operates from Den Helder.



September 6, 2015 – Much work was required to complete the 1,250-tonne jacket and 950-tonne topside for the A18 gas production platform for operator Petrogas E&P Netherlands, at the HSM offshore yard in Schiedam.



September 3, 2015 - The brand-new platform supply vessel *VOS Pace* owned by the Den Helder-based Vroon Offshore Services is seen here moored alongside the Cebo mudplant in IJmuiden. The supplier, of the type PX 121, is the first in a series of six state-of-the-art vessels with an X-bow, built in China.



September 3, 2015 – Just off the Dutch coast, approximately 13 miles west of IJmuiden, the jack-up drilling rig Paragon C20052 (formerly the Noble Byron Welliver) is seen here testing a newly drilled well. The gas produced during the test was flared via a flare boom.



September 2, 2015 – SeaMar’s new diving support vessel *Deep Helder* is photographed here with a working deck packed with diving equipment, close to the Q1-Helder-A oil production complex owned by operator Unocal, and installed offshore in 1982.

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