

Known UK Air and Drone Strikes in Iraq and Syria, 2016

Date	Detail given	Aircraft	Country	No. & type weapon fired	Given target
02 Jan 2016	On Friday 1 January, an RAF Reaper supported coalition air strikes in Ramadi, and on 2 January, another Reaper used a Hellfire missile to destroy a mortar position near Fallujah.	Reaper	Iraq	1 Hellfire missile	Mortar
03 Jan 2016	Sunday 3 January proved a busy day for RAF aircraft: Typhoons delivered four successful attacks in Ramadi against terrorist positions, including a mortar team.	Typhoon	Iraq	?	ISIS positions
03 Jan 2016	A second Typhoon mission over Ramadi conducted no less than six attacks, accounting for five machine-guns and a sniper position.	Typhoon	Iraq	?	5 machine-guns, sniper
03 Jan 2016	Near Haditha, Tornados destroyed a truck-bomb	Tornado	Iraq	?	Truck bomb
03 Jan 2016	A Reaper used Hellfires against two armed pick-up trucks and a group of terrorist fighters.	Reaper	Iraq	Hellfire missiles	ISIS fighters, 2 armed trucks
03 Jan 2016	Over northern Iraq, two more flights of Tornado GR4s successfully attacked a total of two mortar and four machine-gun positions.	Tornado	Iraq	?	2 mortars, 4 machine-guns
04 Jan 2016	On Monday 4 January, a pair of RAF Typhoon FGR4s operated over northern Iraq and used Paveway IV precision guided bombs to attack eight terrorist mortar and rocket positions.	Typhoon	Iraq	Paveway IV guided bombs	8 mortar, rocket positions
04 Jan 2016	Tornado GR4s provided close air support to the Iraqi army as they continue their operations to eliminate the remaining terrorist fighters in and around Ramadi. When an Iraqi unit came under rocket-propelled grenade and mortar fire from several Daesh-held buildings, the GR4s conducted a very accurate attack on all four buildings using Paveway IVs. The Tornados were tasked to deal with a group of terrorists who were preparing for a counter-attack. Despite this being a difficult target for most weapons, the GR4s were able to score a direct hit with a Brimstone missile.	Tornado	Iraq	Paveway IV guided bombs, 1 Brimstone missile	4 ISIS buildings, ISIS fighters
04 Jan 2016	An RAF Reaper was also patrolling over Ramadi it provided surveillance support for three air strikes by coalition fast jets, and also conducted two attacks using its own weapons, employing a GBU-12 laser guided bomb against a Daesh machine-gun team, and destroyed two terrorist trucks with a single Hellfire missile	Reaper	Iraq	1 Hellfire missile, 1 GBU-12	Machine gun team, 2 trucks
04 Jan 2016	On Monday evening, a Tornado patrol, supported as ever by a Voyager air refueling tanker, used a Paveway IV to strike a Daesh-held building near Mosul.	Tornado	Iraq	Paveway IV guided bomb	ISIS building
05 Jan 2016	On Tuesday 5 January, RAF Typhoon patrols over Ramadi continued, they used Paveways to destroy two terrorist machine-gun positions, as well as an anti-aircraft gun that had opened fire on an Iraqi Air Force helicopter.	Typhoon	Iraq	Paveway IV guided bombs	2 machine-guns, anti-aircraft gun
05 Jan 2016	Near Haditha, Reapers provided close air support to Iraqi security forces as Daesh attempted to mount an attack on them Hellfire missiles and a GBU-12 were used against two armed pick-up trucks, two machine-gun teams and groups of terrorist fighters.	Reaper	Iraq	Hellfire missiles, 1 GBU-12 bomb	2 armed trucks, 2 machine-guns, ISIS fighters

05 Jan 2016	In the area around Mosul, Tornado GR4s hit two Daesh rocket teams.	Typhoon	Iraq	?	2 rocket teams
06 Jan 2016	Following their loss of control of key areas in Ramadi, Daesh extremists attempted to mount attacks against Iraqi ground forces near Haditha. Coalition aircraft provided extensive close air support to Iraqi troops, and on Wednesday 6 January, a pair of RAF Tornado GR4s used two Paveway IV bombs in attacks on with an Iraqi terrorists who were engaged in close combat unit.	Tornado	Iraq	2 Paveway IV guided bombs	ISIS fighters
06 Jan 2016	The Typhoons then flew south to Ramadi, where operations continued as the Iraqis sought to eliminate those Daesh positions that remain in the city. Working closely with other coalition aircraft, the Typhoons conducted four Paveway attacks, destroying two machine-gun positions and two armoured personnel carriers.	Typhoon	Iraq	Paveway IV guided bombs	2 machine guns, 2 armoured personnel carriers
06 Jan 2016	In northern Iraq, Tornado GR4s supported Kurdish forces; south of Sinjar, a Paveway IV destroyed a terrorist team manning rocket launchers, while near Mosul, three fighting positions and three accommodation blocks used by Daesh were destroyed by six Paveways.	Tornado	Iraq	7 Paveway IV guided bombs	Rocket launcher, 3 ISIS positions, 3 buildings
06 Jan 2016	Later in the day Typhoons were once again over Ramadi, where they struck two terrorist positions, including a heavy machine-gun team that was firing on Iraqi troops.	Typhoon	Iraq	?	2 ISIS positions
07 Jan 2016	Operations over Ramadi continued on Thursday 7 January, with Typhoons delivering six successful Paveway IV attacks on Daesh positions, including two more machine-gun teams.	Typhoon	Iraq	Paveway IV guided bombs	2 machine guns, 4 ISIS positions
07 Jan 2016	In the north, the Tornados were likewise again patrolling over Mosul and Kisik, and these missions used Paveways against a group of extremists and a rocket position.	Tornado	Iraq	Paveway IV guided bombs	ISIS fighters, rocket position
08 Jan 2016	The next day, Tornado GR4s conducted two more Paveway attacks near Mosul, striking rocket and machine-gun teams.	Tornado	Iraq	Paveway IV guided bombs	Rocket, machine gun team
10 Jan 2016	On Sunday 10 January, the focus turned to a series of targets inside Syria. Near Raqqa, a pair of Tornados bombed a pair of Daesh-held buildings, one of which was a confirmed command and control Centre, and used a Brimstone missile to destroy a supply truck.	Tornado	Syria	Paveway IV guided bombs, 1 Brimstone missile	2 ISIS buildings
10 Jan 2016	A second pair of GR4s dropped four Paveway Ivs on a tunnel complex, again near Raqqa	Tornado	Syria	4 Paveway IV guided bombs	Tunnel complex
10 Jan 2016	A Reaper engaged a terrorist position with a Hellfire missile.	Reaper	Syria	Hellfire missile	ISIS position
10 Jan 2016	During the evening, a further Tornado flight and a Reaper used a combination of Brimstone and Hellfire missiles to attack a number of mobile cranes brought in by Daesh to attempt to repair the severe damage inflicted by previous RAF and coalition air strikes on the Omar oil field.	Tornado / Reaper	Syria	Hellfire missiles, Brimstone missiles	Mobile cranes
11 Jan 2016	On Monday 11 January, a Reaper identified a terrorist check point – one of the methods used by Daesh to attempt to impose their will on the civilian population – and successfully attacked it	Reaper	Syria	Hellfire missile	ISIS checkpoint

	using a Hellfire missile.				
12 Jan 2016	The following day, Reapers maintained surveillance over the oilfields in eastern Syria which have been targeted by coalition air strikes, including by the RAF, to deny Daesh the ability to use the oil to finance their operations. The Reapers identified a mechanical excavator which was being used to attempt repairs, and an oil pump which had evidently been brought back on line, and destroyed both with Hellfire missiles.	Reaper	Syria	Hellfire missiles	Oil pump, Excavator
12 Jan 2016	In north-eastern Syria, Tornado GR4s meanwhile patrolled in the area of Al Hasakah, where they used Paveway IVs to strike two Daesh-held strongpoints.	Tornado	Syria	Paveway IV guided bombs	2 ISIS strongpoints
12 Jan 2016	On the evening of Tuesday 12 January, whilst other coalition aircraft conducted a series of strikes on a range of other key Daesh targets within Mosul, Typhoon FGR4s from RAF Akrotiri, supported by a Voyager air refueling tanker, used Paveway IV guided bombs to attack the security headquarters compound, and initial analysis indicates that the attack was a success.	Tornado	Syria	Paveway IV guided bombs	ISIS complex
13 Jan 2016	On Wednesday 13 January, Typhoon FRG4s provided Iraqi ground forces with close air support as they continue to eliminate terrorist positions in and around Ramadi and conducted two successful attacks with Paveway IV guided bombs on Daesh machine-gun teams.	Tornado	Syria	Paveway IV guided bombs	2 machine gun teams
13 Jan 2016	South-west of Sinjar, Tornado GR4s supported operations by the Kurdish peshmerga and used a Paveway to destroy a machine-gun position which had opened fire on the troops.	Tornado	Syria	1 Paveway IV guided bomb	Machine gun position
14 Jan 2016	The following day, Typhoons were again in action over Ramadi, where they delivered three Paveway IV attacks on a group of Daesh fighters preparing for an assault, a firing position and a mortar team.	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters, position and mortar team
14 Jan 2016	Tornados patrolled east of Mosul, where they used a pair of Paveways to attack a mortar position and an armed pick-up truck.	Tornado	Syria	2 Paveway IV guided bombs	Mortar, armed truck
14 Jan 2016	Typhoons operated in the same area that night and successfully bombed three buildings in a terrorist-held compound.	Typhoon	Syria	?	3 ISIS buildings
15 Jan 2016	On Friday 15 January, Tornado GR4s struck a Daesh barracks near Raqqa, with two Paveway IVs, also destroying one of their vehicles parked close by.	Tornado	Syria	2 Paveway IV guided bombs	ISIS building
17 Jan 2016	GR4s conducted two successful attacks with Brimstone missiles on Sunday 17 January, destroying a vehicle near Tabbaqah, west of Raqqa...	Tornado	Syria	Brimstone missile	Vehicle
17 Jan 2016	GR4s conducted two successful attacks with Brimstone missiles on Sunday 17 January, destroying ... a terrorist supply truck south of Sinjar in Iraq.	Tornado	Iraq	Brimstone missile	Vehicle
18 Jan 2016	On Monday 18 January, Typhoons operated over northern Iraq, working in close cooperation with Kurdish forces. North-west of Mosul, our aircraft identified two groups of armed terrorists and struck both with Paveway IV guided bombs.	Typhoon	Iraq	2 Paveway IV guided bombs	2 ISIS fighters

18 Jan 2016	The Typhoons then flew west to the area south of Sinjar, the scene of a significant Kurdish victory in November, where they employed a third Paveway to destroy a concealed Daesh vehicle	Typhoon	Iraq	Paveway IV guided bomb	ISIS vehicle
19 Jan 2016	Tuesday 19 January ... the Reaper used its Hellfire missiles to destroy a group of terrorist vehicles, including a fuel tanker, a supply truck and a mechanical excavator used for constructing defensive positions.	Reaper	Iraq	Hellfire missiles	ISIS vehicles
19 Jan 2016	Tuesday 19 January ... Typhoons conducted successful Paveway attacks on a terrorist mortar team and a group of Daesh armed with rocket-propelled grenades.	Typhoon	Iraq	Paveway	ISIS mortar team, fighters
19 Jan 2016	Meanwhile a second Reaper was operating near Haditha, where it attacked a large truck-bomb, terrorist fighters and a supporting vehicle with three Hellfires.	Reaper	Iraq	3 Hellfire missiles	Truck bomb, vehicle
20 Jan 2016	On Wednesday 20 January Typhoon FGR4s and Tornado GR4s provided close air support to Iraqi ground forces in and near Ramadi. Four successful attacks were conducted using Paveway IV guided bombs, striking two Daesh-held buildings, a group of extremists, and an armoured personnel carrier which was being converted into a large truck-bomb. The latter attack also detonated the stockpile of explosives close by.	Tornado	Iraq	Paveway IV guided bombs	2 ISIS buildings, ISIS fighters, armoured personnel carrier
20 Jan 2016	A Typhoon mission also provided support to Iraqi troops near Fallujah, hitting a terrorist mortar position with a Paveway IV.	Typhoon	Iraq	Paveway IV guided bombs	ISIS mortar
21 Jan 2016	The following day, a pair of Typhoons patrolling Ramadi and Haditha, delivered four Paveway attacks on three Daesh strongpoints and a further explosives stockpile	Typhoon	Iraq	Paveway IV guided bombs	3 strongpoints, explosives stockpile
21 Jan 2016	Further north, a Tornado flight used a pair of Paveway IVs to destroy a terrorist fighting position and a mortar team near Qayyarah.	Tornado	Iraq	2 Paveway IV guided bombs	ISIS position, mortar
22 Jan 2016	On Friday 22 January, Typhoons worked closely with another coalition aircraft to target a group of terrorists concealed beneath trees, scoring a direct hit with a Paveway.	Typhoon	Iraq	Paveway IV guided bomb	ISIS fighters
24 Jan 2016	A Typhoon mission on Sunday 24 January operating near Ramadi, identified an anti-aircraft gun and ammunition store and attacked with two Paveways which destroyed both targets.	Typhoon	Iraq	Paveway	Anti-aircraft gun, ammunition
24 Jan 2016	The Typhoons then switched their focus to a network of Daesh trenches located near Habbaniyah, where they were joined by a pair of Tornados. The two RAF aircraft conducted six attacks with Paveways on the trench positions and a bunker.	Typhoon	Iraq	Paveway IV guided bombs	ISIS positions, bunker
24 Jan 2016	Tornado GR4s also patrolled south-east of Mosul, where they struck three terrorist-held buildings.	Tornado	Iraq	?	2 ISIS buildings
24 Jan 2016	In Syria, Tornados used Brimstone missiles to successfully attack three mobile cranes, being used by Daesh to repair damage from coalition air strikes.	Tornado	Syria	Brimstone missiles	3 cranes
24 Jan 2016	A further Typhoon mission dropped six Paveways	Typhoon	NW	6 Paveway IV	ISIS compound

	on a terrorist command compound north-west of Ramadi.		Ramadi	guided bombs	
25 Jan 2016	Monday 25 January saw a further two cranes destroyed by Brimstones, south-west of Raqqa,	Tornado	Syria	Brimstone missiles	2 cranes
25 Jan 2016	A Reaper remotely piloted aircraft hit a Daesh position with a Hellfire missile, just on the Syrian side of the border.	Reaper	Syria	Hellfire missile	ISIS position
25 Jan 2016	In northern Iraq, Tornado GR4s bombed a mortar position and a sniper team which had opened fire on Kurdish forces advancing south of Sinjar.	Tornado	Iraq	?	Mortar, sniper teams
26 Jan 2016	On Tuesday 26 January, in the west of Iraq, a pair of GR4s conducted three attacks with Paveway IV guided bombs against a weapons stockpile, a terrorist fighting position, and a truck armed with an anti-aircraft gun.	Tornado	Iraq	Paveway IV guided bombs	Weapon stockpile, ISIS position, anti-aircraft gun
26 Jan 2016	GR4s provided close air support to Kurdish troops near Kirkuk; a Paveway was used to strike a Daesh-held building.	Tornado	Iraq	Paveway IV guided bomb	ISIS building
26 Jan 2016	The GR4s then attacked a group of terrorists hidden inside a pair of caves overlooking the Little Zab River. The Tornados launched a pair of Brimstone missiles, which scored direct hits on both of the cave entrances.	Tornado	Iraq	2 Brimstone missiles	ISIS fighters
26 Jan 2016	In Syria, Tornados used six Brimstones to attack mobile cranes south-west of Raqqa, highly valued by Daesh when attempting to repair damage inflicted by air strikes.	Tornado	Syria	6 Brimstone missiles	Mobile cranes
27 Jan 2016	On Wednesday 27 January, Typhoon FGR4s patrolled east of Ramadi and used a Paveway to destroy a terrorist armoured personnel carrier,	Typhoon	Iraq	1 Paveway IV guided bomb`	Armoured personnel carrier
27 Jan 2016	North of Habbaniyah, worked with another coalition aircraft to deliver a successful Paveway attack against a group of terrorists engaged in combat with Iraqi troops.	Typhoon	Iraq	Paveway IV guided bomb	ISIS fighters
27 Jan 2016	[On 27 Jan] In northern Iraq, between Qayyarah and Mosul, a Tornado mission destroyed a Daesh vehicle with a Paveway IV.	Tornado	Iraq	1 Paveway IV guided bomb	Vehicle
28 Jan 2016	The following day [28 Jan] Typhoons in action north of Habbaniyah conducted four successful attacks on Daesh positions, including a heavy machinegun team.	Typhoon	Iraq	?	4 ISIS positions
28 Jan 2016	In north-western Iraq, Tornados bombed both a mortar and a heavy machine-gun position	Tornado	Iraq	?	Machine gun, Mortar
28 Jan 2016	Other Tornados ... operated east of Ramadi; the GR4s destroyed an armed vehicle, parked under cover, with a Brimstone	Tornado	Iraq	Brimstone missile	Armed vehicle
28 Jan 2016	The Reaper used a Hellfire missile to destroy an armoured truck – extensive secondary explosions suggest that it had been converted into a large truck bomb.	Reaper	Iraq	Hellfire	Armoured truck
29 Jan 2016	On Friday 29 January, Tornado GR4 and Typhoon FGR4s from RAF Akrotiri, supported by a Voyager tanker, flew armed reconnaissance missions over north-east Syria and northern Iraq. Near Mosul, the Typhoons conducted two attacks with Paveway IV precision guided bombs, striking a	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters, weapons store

	group of terrorists and a weapons store.				
29 Jan 2016	Across the border in Syria, two pairs of Tornados worked in close cooperation with an RAF Reaper to target a group of Daesh defensive positions and a large tunnel complex with several entrances. The Tornados dropped eight Paveways on the defensive positions and two tunnel entrances	Tornado	Syria	8 Paveway IV guided bombs	ISIS positions, tunnels
29 Jan 2016	A Reaper conducted an attack on a third tunnel with its own GBU-12 guided bomb.	Reaper	Syria	GBU-12 bomb	Tunnel
30 Jan 2016	RAF Reapers were in action again on Saturday 30 January. In the area of Ramadi, they conducted two successful attacks with Hellfire missiles against an armoured truck and a mechanical excavator,	Reaper	Iraq	Hellfire missiles	Armoured truck, excavator
30 Jan 2016	A Reaper patrol along the border with Syria destroyed another engineering vehicle, used to build defences and attempt repairs to damage from coalition air strikes, near Al Qaim.	Reaper	Iraq	?	Engineering vehicle
31 Jan 2016	On Sunday, a Tornado GR4 flight provided support to the Iraqi army in and around Ramadi: our aircraft used a Brimstone missile to destroy a large truck-bomb, and three Paveways to destroy terrorist positions, including a heavy machine-gun team.	Tornado	Iraq	Brimstone missile, 3 Paveway IV guided bombs	Truck bomb, ISIS positions
31 Jan 2016	In northern Iraq, Typhoons conducted two Paveway attacks on a group of terrorists caught in the open near Mosul, and, slightly further south, a Daesh-held building.	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters, ISIS building
31 Jan 2016	A pair of Typhoons also patrolled over eastern Syria [on 31 Jan], where they used eight Paveways to destroy two large clusters of defensive positions.	Typhoon	Syria	8 Paveway IV guided bombs	ISIS positions
01 Feb 2016	On Monday 1 February, two Tornados flew reconnaissance and close air support for the Kurdish peshmerga in northern Iraq. Near Kisik Junction, they used a Brimstone missile and three Paveways to attack three rocket launchers and a Daesh vehicle, then	Tornado	Iraq	1 Brimstone missile, 3 Paveway IV guided bombs	3 rocket launchers, vehicle
01 Feb 2016	Over Qayyarah, a further Brimstone and Paveway destroyed an ammunition truck and a mortar position.	Tornado	Iraq	1 Brimstone, 1 Paveway IV guided bomb	Ammunition, mortar
01 Feb 2016	Typhoons operated in the area of Ramadi, where they conducted successful attacks on three terrorist strongpoints.	Typhoon	Iraq	?	3 strongpoints
02 Feb 2016	Typhoons worked closely with other coalition aircraft on Tuesday 2 February to target a group of terrorists maneuvering in the open near Ramadi, hitting them with a Paveway IV guided bomb.	Typhoon	Iraq	1 Paveway IV guided bombs	ISIS fighters
02 Feb 2016	The Typhoons then flew to the area north of Habbaniyah, where they conducted a Paveway attack on a terrorist-held building.	Typhoon	Iraq	Paveway IV guided bombs	ISIS building
02 Feb 2016	Further north a pair of Tornado GR4s bombed a Daesh mortar team that was firing on Iraqi troops near Bayji.	Tornado	Iraq	?	Mortar team
03 Feb 2016	Typhoons destroyed a terrorist building with a Paveway, then used two more Paveways to engage a pair of Daesh groups, armed with heavy	Typhoon	Iraq	3 Paveway IV guided bombs	ISIS building, ISIS fighters

	machine guns and rocket-propelled grenades, which were engaged in close combat with Iraqi troops. Despite the proximity of the friendly forces, the precision of the Paveways and careful planning by the aircrew allowed both targets to be struck successfully.				
03 Feb 2016	Tornados similarly had to attack a series of Daesh positions close to Iraqi forces, and these were also highly successful: Paveway attacks accounted for four groups of terrorist fighters, including one heavy machine-gun and two mortar teams, and when machine-gunners opened fire on the Iraqis from the windows of a single storey building, the Tornados launched a pair of Brimstone missiles which accurately struck both windows.	Tornado	Iraq	2 Brimstone missiles, Paveway IV guided bombs	ISIS fighters, machine gun
03 Feb 2016	Later in the day, Typhoons used a Paveway to destroy a mechanical excavator which had been converted into a large booby-trap, positioned amongst trees next to a road east of Ramadi.	Typhoon	Iraq	1 Paveway IV guided bomb	Excavator
04 Feb 2016	RAF patrols over the countryside around Ramadi and Fallujah continued on Thursday 4 February. Typhoons bombed three Daesh positions, as well as a group of terrorists caught moving in the open,	Typhoon	Iraq	?	3 ISIS positions, ISIS fighters
04 Feb 2016	Tornado GR4s again attacked extremists engaged in very close combat with Iraqi forces; Paveways were used to destroy a heavy machine-gun team and a stronghold, but in one instance, the terrorists were so close to the Iraqi troops that even a Paveway could not be used safely. Fortunately, the Brimstone missile's precision and small warhead allowed one to be fired into the midst of the Daesh fighters to significant effect.	Tornado	Iraq	Paveway IV guided bombs, Brimstone missiles	Machine-gun team. Strongpoint, ISIS fighters
05 Feb 2016	The following day, Typhoons operated around Habbaniyah and Ramadi, using eight Paveways to destroy an armed truck, a recoilless gun, two Daesh-held buildings, a command and control position, two weapons caches and a workshop producing truck-bombs.	Typhoon	Iraq	8 Paveway IV guided bombs	Armed truck, recoilless gun, 3 ISIS buildings, 2 weapons cache, truck bomb workshop
07 Feb 2016	On Sunday 7 February, Tornados used a Brimstone missile to destroy a truck-bomb near Habbaniyah,	Tornado	Iraq	1 Brimstone missile	Truck bomb
07 Feb 2016	Typhoon missions near Ramadi successfully attacked a garage containing an armed pick-up truck which was firing through the doorway at advancing Iraqi soldiers, and a terrorist-held building.	Typhoon	Iraq	?	Armed truck
09 Feb 2016	On Tuesday 9 February, a pair of Typhoon FGR4s, supported by an RAF Voyager air refuelling tanker, destroyed an armoured vehicle, converted into a large truck-bomb, blocking a road with a Paveway IV guided bomb south-west of Kirkuk.	Typhoon	Iraq	1 Paveway IV guided bomb	Truck bomb
10 Feb 2016	The following day, Wednesday 10 February, Typhoons provided close air support to Iraqi troops engaged in close combat with Daesh extremists north of Habbaniyah. The Typhoons struck the terrorists with a pair of Paveway IVs.	Typhoon	Iraq	2 Paveway IV guided bombs	ISIS fighters
11 Feb 2016	As Iraqi ground forces clear the remaining pockets of Daesh within Ramadi city they are also turning their efforts to Daesh strongpoints to the north and east of the city, supported by coalition aircraft. On Thursday, a pair of Typhoons, working in close	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters, machine gun, ISIS building

	cooperation with a coalition surveillance aircraft, successfully conducted two Paveway attacks on groups of terrorist fighters. Later that day, a second Typhoon mission over the area used Paveways to destroy a heavy machine-gun position and an accommodation block used by Daesh.				
12 Feb 2016	Typhoons were also active east of Ramadi on Friday 12 February, bombing two groups of terrorists, as well as a team planting improvised explosive devices.	Typhoon	Iraq	?	2 groups ISIS fighters, IED team
14 Feb 2016	On Sunday 14 February, a Tornado mission successfully targeted a compound north of Habbaniyah, where around 16 Daesh extremists had been observed, striking it with a pair of Paveway IVs.	Tornado	Iraq	2 Paveway IV guided bombs	ISIS compound
15 Feb 2016	On Monday 15 February, two Tornado GR4s conducted an armed reconnaissance patrol over northern Iraq in support of Kurdish security forces. A group of Daesh extremists were identified in a pair of buildings south-west of Kirkuk and were able to attack both at the same time with Paveway IV bombs. A Brimstone missile destroyed a terrorist vehicle and before the Tornados returned to base a Paveway was used to attack a weapons cache.	Tornado	Iraq	Paveway IV guided bombs, Brimstone missile	2 ISIS buildings, vehicle, weapons cache
15 Feb 2016	Meanwhile, RAF Typhoons alongside other coalition aircraft conducted a series of coordinated attacks on Daesh facilities. The targets included a large weapons store at Abu Kamal, on the Syrian bank of the Euphrates which was destroyed with four Paveway IVs.	Typhoon	Iraq	4 Paveway IV guided bombs	Weapons store
16 Feb 2016	The following day, Tornados patrolled over northern Iraq and came to the assistance of advancing Kurdish forces who were under fire from Daesh heavy machine-gun and mortar teams south-east of Mosul. Paveway attacks successfully dealt with the threat.	Tornado	Iraq	Paveway IV guided bombs	Machine gun and mortar teams
17 Feb 2016	On Wednesday 17 February, a Tornado mission interrupted a Daesh team preparing to fire nine artillery rockets, hitting them with Paveway to impact the middle of the line of launch rails.	Tornado	Iraq	Paveway IV guided bombs	Rocket team
18 Feb 2016	RAF Tornado GR4s and a Reaper remotely piloted aircraft conducted counter-Daesh missions over Syria on Thursday 18 February. North of Abu Kamal, a Tornado patrol used a pair of Brimstone missiles to strike a large engineering vehicle being used for wellhead repair and maintenance in a Daesh-controlled oilfield.	Tornado	Syria	2 Brimstone missiles	Engineering vehicle
18 Feb 2016	Meanwhile, north-west of Raqqa, a Reaper worked closely with coalition jets to prosecute a group of Daesh extremists who were attacking members of the moderate Syrian armed opposition. The Reaper provided targeting and surveillance support to three successful coalition air attacks, then conducted a fourth attack using its own Hellfire missile.	Reaper	Syria	1 Hellfire missile	ISIS fighters
18 Feb 2016	Over Iraq other Tornados continued to support Iraqi army operations around Ramadi, in the course of which they used Paveway IVs to bomb three Daesh-held buildings.	Tornado	Iraq	Paveway IV guided bombs	3 ISIS buildings
19 Feb 2016	On Friday 19 February, Typhoon FGR4s and	Typhoon	Iraq	3 Paveway IV	Anti-aircraft gun,

	Tornados patrolled over western Iraq. North-east of Ramadi, an Iraqi helicopter reported coming under fire from an anti-aircraft gun concealed beneath a carport. A Paveway IV delivered by a Typhoon removed the threat. The Typhoons then dropped two Paveways on a large building where a group of terrorists, armed with rocket-propelled grenades, were holding out against the advancing Iraqi troops.			guided bomb	ISIS building
19 Feb 2016	North-east of Al Asad airbase, a coalition surveillance aircraft identified a set of five rocket launchers and an ammunition stockpile set up in a palm grove, and was able to guide in a Tornado flight which destroyed both targets with Paveways, then used a third Paveway to eliminate a group of terrorists caught in the open.	Tornado	Iraq	3 Paveway IV guided bombs	Rocket launchers, ammunition stockpile, , ISIS fighters
19 Feb 2016	Later in the day, a second Tornado patrol used Paveways to destroy four Daesh-held buildings north-east of Ramadi, including two used to prepare truck-bombs.	Tornado	Iraq	Paveway IV guided bombs	4 ISIS buildings
19 Feb 2016	In northern Iraq, a Typhoon mission operated north-east of Mosul, supporting the Kurdish peshmerga, and destroyed two buildings from which the terrorists had been fighting.	Typhoon	Iraq	?	2 ISIS buildings
19 Feb 2016	Over Syria, a Reaper and other coalition aircraft supported moderate Syrian opposition forces north-west of Raqqa; our Reaper assisted in one coalition air strike, then used a Hellfire to destroy an Daesh improvised armoured vehicle.	Reaper	Syria	1 Hellfire missile	Armoured vehicle
20 Feb 2016	The following day saw RAF Reapers in action over both Syria and Iraq again. North-west of Raqqa, a Reaper tracked a Daesh machine-gun team that had been firing on Syrian opposition fighters. The terrorists retreated to a small building, where they were joined by other extremists. The Reaper then successfully attacked the group with a Hellfire missile.	Reaper	Syria	Hellfire	ISIS fighters
20 Feb 2016	In Iraq , again northeast of Ramadi, another Reaper worked closely with another coalition remotely piloted aircraft to provide close air support to the Iraqi ground forces. The Reaper assisted its coalition partner in an attack, then conducted two attacks with its own Hellfires on two Daesh groups engaged in close combat with the Iraqi troops.	Reaper	Iraq	Hellfire missiles	2 groups ISIS fighters
22 Feb 2016	A Typhoon flight patrolled east of Mosul on Monday 22 February, and was able to identify a Daesh team that was planting improvised explosive devices, they hit with a Paveway.	Typhoon	Iraq	1 Paveway IV guided bomb	IED team
24 Feb 2016	RAF Tornado GR4s, supported by a Voyager air refuelling tanker, successfully bombed a Daesh weapons factory in Mosul on Wednesday 24 February.	Tornado	Iraq	?	Weapons factory
25 Feb 2016	The following day], Typhoon FGR4s patrolled the area north-west of Mosul, and assisted Kurdish peshmerga forces who had come under fire from a terrorist mortar position, destroying it with a Paveway IV guided bomb.	Typhoon	Iraq	1 Paveway IV guided bomb	Mortar position
25 Feb 2016	A second Typhoon mission, near Tall Afar, used a Paveway to eliminate a machine-gun team that was also firing on Iraqi forces.	Typhoon	Iraq	1 Paveway IV guided bomb	Machine gun team

25 Feb 2016	Further south, Tornados operated near Fallujah, where they delivered two successful Paveway attacks on two groups of terrorists entrenched in a network of bunkers.	Tornado	Iraq	Paveway IV guided bombs	ISIS bunkers
25 Feb 2016	In eastern Syria, a Tornado patrol supported Syrian Democratic Forces as they mounted an offensive against Daesh near As Shadadi; our aircraft destroyed a terrorist mortar position with a Paveway IV.	Tornado	Syria	1 Paveway IV guided bombs	Mortar position
26 Feb 2016	On Friday 26 February, Tornados and Typhoons flew missions over northern Iraq. Typhoons bombed a Daesh mortar team that was firing on Kurdish troops near Kisik	Typhoon	Iraq	?	Mortar team
26 Feb 2016	A pair of Tornados used a Brimstone missile to attack a checkpoint east of Baiji. They then headed north to the Mosul area where they used a Paveway against a rocket-launcher position.	Tornado	Iraq	Brimstone missile, 1 Paveway IV guided bomb	ISIS checkpoint, rocket launcher
28 Feb 2016	Over northern Iraq on Sunday 28 February: a Typhoon flight struck two mortar positions with Paveways	Typhoon	Iraq	Paveway IV guided bombs	2 Mortar positions
28 Feb 2016	Tornados also used a Paveway IV to demolish a large isolated building from which a terrorist sniper was engaging Kurdish forces south of Sinjar.	Tornado	Iraq	Paveway IV guided bomb	Sniper position
28 Feb 2016	Across the border in northern Syria, an RAF Reaper conducted five attacks with Hellfire missiles and a GBU-12 guided bomb against Daesh extremists, including an armed team in a truck, near Tell Dehliis.	Reaper	Syria	Hellfire missiles, 1 GBU-12 bomb	5 groups ISIS fighters
01 Mar 2016	RAF Typhoon FGR4s patrolled over western Iraq on 1 March to support Iraqi army operations south-east of Haditha. One of the few large artillery pieces operated by Daesh – a D-30 122mm howitzer – was located close to the Euphrates, and was successfully destroyed by a Paveway IV precision guided bomb.	Typhoon	Iraq	Paveway IV guided bombs	122mm howitzer
02 Mar 2016	On 2 March, Typhoons were active over a wide swathe of northern Iraq, providing close air support to the Kurdish security forces. East of Mosul, Paveways were used to destroy two groups of terrorists with vehicles,	Typhoon	Iraq	Paveway IV guided bombs	2 groups ISIS fighters
02 Mar 2016	The aircraft then flew west to the area north-east of Tall Afar where they conducted a series of four Paveway attacks on a number of rocket-launchers and a stockpile of rockets.	Typhoon	Iraq	Paveway IV guided bombs	Rocket launchers, rockets
02 Mar 2016	A second Typhoon mission bombed a Daesh mortar team south of Sinjar,	Typhoon	Iraq	?	Mortar team
02 Mar 2016	A pair of Tornado GR4s used a Paveway to demolish a building north of Mosul where a large group of terrorists had been observed.	Tornado	Iraq	1 Paveway IV guided bomb	ISIS building
02 Mar 2016	In eastern Syria, an RAF Reaper worked closely with other coalition aircraft to support Syrian Democratic Forces south-west of As Shadadi, as they followed up on their recent successes against Daesh in the region. A coalition surveillance aircraft identified a terrorist truck, armed with an anti-aircraft gun, concealed in an orchard, and passed the target to the Reaper for prosecution. A Hellfire missile scored a direct hit on the vehicle.	Reaper	Syria	Hellfire missile	Anti-aircraft gun

03 Mar 2016	Typhoons were in action again near Mosul on 3 March, they used Paveways to destroy two buildings where Daesh terrorists were possibly planning an attack.	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
03 Mar 2016	Later that night, Typhoons also bombed two heavy machine-gun positions south-west of Sinjar.	Typhoon	Iraq	?	2 Heavy machine guns
04 Mar 2016	The Typhoons continued to provide close air support to the Iraqi and Kurdish forces in northern Iraq on Friday 4 March, delivering three attacks with Paveway IVs against Daesh positions near Tall Afar, Kisik and Sinjar.	Typhoon	Iraq	Paveway IV guided bombs	3 ISIS positions
05 Mar 2016	On Saturday 5 March, four Typhoons joined other coalition aircraft in a large coordinated operation against terrorist locations in western Iraq. The RAF aircraft targeted a large Daesh weapons factory in the countryside near Qubaysah, some miles west of Ramadi. The Typhoons released a total of 16 Paveways, which completely demolished workshops and storage sheds.	Typhoon	Iraq	16 Paveway IV guided bombs	Weapons factory
06 Mar 2016	The following day, a Typhoon mission returned to northern Iraq and assisted Kurdish forces south-west of Sinjar, who had come under fire from a terrorist heavy machine-gun team. A Paveway IV destroyed the target.	Typhoon	Iraq	1 Paveway IV guided bomb	Machine gun team
07 Mar 2016	Reaper remotely piloted aircraft have also been extremely active over the period, primarily flying surveillance missions. An attack was conducted by a Reaper the morning of Monday 7 March, when a Hellfire missile was used to destroy a Daesh-held building in western Iraq, close to the Syrian border.	Reaper	Iraq	1 Hellfire missile	ISIS building
07 Mar 2016	On the evening of Monday 7 March, a Typhoon patrol assisted Kurdish peshmerga fighting a group of terrorists near Kisik by attacking the Daesh position with a Paveway IV precision guided bomb.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS position
08 Mar 2016	Patrols over northern Iraq continued on Tuesday 8 March. Near Kisik, Tornados used a Paveway against a terrorist position	Tornado	Iraq	1 Paveway IV guided bomb	ISIS position
08 Mar 2016	Near Kisik ... a Typhoon flight silenced a heavy machine-gun position with a direct hit from a Paveway.	Typhoon	Iraq	1 Paveway IV guided bomb	Heavy machine gun
08 Mar 2016	The Typhoons were then tasked to use their remaining Paveway bombs to strike seven strongpoints in a village south of Sinjar, where Daesh had driven out the civilian population and were using it as a defensive base against the Kurdish advance. All seven Paveways struck their targets accurately.	Typhoon	Iraq	7 Paveway IV guided bombs	7 Strongpoints
09 Mar 2016	On Wednesday 9 March, the Typhoons patrolled south of Sinjar. A vehicle used by Daesh to construct defensive positions, was destroyed by a Paveway.	Typhoon	Iraq	1 Paveway IV guided bomb	Vehicle
09 Mar 2016	A second deserted village taken over by the terrorists as a fortified haven, near Ranbusi, was then attacked with six targets successfully struck by Paveways.	Typhoon	Iraq	Paveway IV guided bombs	6 ISIS targets
09 Mar 2016	Further south, Tornado GR4s were providing close air support to Iraqi forces in the Euphrates	Tornado	Iraq	3 Paveway IV guided bombs	ISIS fighters, 2 Heavy machine

	river valley. A Paveway was used against a group of terrorists in the open, whilst a further pair of Paveways accounted for two heavy machine-gun positions.				guns
10 Mar 2016	Both Tornados and Typhoons were active over the Euphrates valley the next day, Thursday 10 March, assisting Iraqi forces as they cleared Daesh positions to the west of Ramadi. A Tornado mission targeted a terrorist weapons cache concealed under the ramp of a destroyed bridge over the Euphrates, using two Paveways.	Tornado	Iraq	2 Paveway IV guided bombs	Weapons cache
10 Mar 2016	At the same time a Typhoon mission conducted successful strikes on a heavy machine-gun team and a group of extremists engaged in close combat with Iraqi troops.	Typhoon	Iraq	?	Heavy machine gun, ISIS fighters
10 Mar 2016	In the north of the country , a Typhoon flight attacked a rocket launch point near Tall Afar, then dropped Paveways on six Daesh positions in the Kisik area where Kurdish forces had spotted terrorists preparing for a possible attack.	Typhoon	Iraq	Paveway IV guided bombs	Rocket launch point, 6 ISIS positions
11 Mar 2016	On Friday 11 March, a Reaper worked with coalition jets to attack terrorists to the west of Sinjar. The Reaper provided targeting assistance for three successful coalition air attacks on groups of Daesh fighters, it then conducted two attacks of its own using Hellfire missiles.	Reaper	Iraq	Hellfire	
12 Mar 2016	The following day another Reaper was active in the same area and conducted an attack on terrorists who were launching rockets. The terrorists immediately left the area in a truck which the Reaper's crew tracked and successfully attacked with a Hellfire. The Reaper then directed coalition aircraft in an attack on an array of rocket launchers nearby.	Reaper	Iraq	Hellfire	ISIS fighters, vehicle, rocket launchers
13 Mar 2016	On Sunday 13 March, Typhoon FGR4s, based at RAF Akrotiri and supported by a Voyager air refuelling tanker, provided support to Iraqi troops operating to the west of Ramadi. The Typhoons used a pair of Paveway IV guided bombs to demolish the entrance to a tunnel system which was reported to be surrounded by IEDs.	Typhoon	Iraq	2 Paveway IV guided bombs	Tunnels
14 Mar 2016	Near Qayyarah, Typhoons used Paveways against two Daesh mortars and a group of terrorists engaged in a firefight with the security forces	Typhoon	Iraq	Paveway IV guided bombs	2 mortars, ISIS fighters
14 Mar 2016	Near Kisik, Tornados destroyed two Daesh positions, again with Paveway IVs.	Tornado	Iraq	Paveway IV guided bombs	2 ISIS positions
15 Mar 2016	On Tuesday 15 March, Typhoon FGR4s provided close air support to Kurdish peshmerga pushing south from Sinjar and eliminated a heavy machine-gun position firing on Kurdish troops, scoring a direct hit on the terrorists with a Paveway IV precision guided bomb.	Typhoon	Iraq	Paveway IV guided bombs	Heavy machine gun
16 Mar 2016	Kurdish forces received further air support from the RAF the following day, when Tornado GR4s, destroyed another heavy machinegun which had opened fire on the peshmerga some miles to the west of Kirkuk.	Tornado	Iraq	Paveway IV guided bombs	Heavy machine gun
16 Mar 2016	Further south, in Anbar province, a Reaper remotely piloted aircraft patrolled over Anbar province and identified and attacked a terrorist	Reaper	Iraq	1 Hellfire missile	ISIS checkpoint

	check-point near Ar Rutbah being used to intimidate and control the local population using a Hellfire missile.				
17 Mar 2016	Thursday 17 March saw Tornados and Typhoons operating over both northern and western Iraq. Typhoons used a Paveway bomb to demolish a building from which a terrorist sniper had opened fire on Iraqi forces near Tall Afar,	Typhoon	Iraq	1 Paveway IV guided bomb	Sniper
17 Mar 2016	A Tornado mission over Anbar worked in cooperation with a coalition remotely piloted aircraft to assist Iraqi troops engaged in combat with Daesh extremists to the north-west of Ramadi. Despite heavy cloud obscuring the target, the RAF and coalition aircraft used their highly sophisticated surveillance and targeting equipment to allow the Tornados to deliver two precision attacks with Brimstone missiles on the terrorists, then, once they attempted to retreat, to strike the remainder of the Daesh group with a Paveway.	Tornado	Iraq	Brimstone missiles, 1 Paveway IV guided bomb	ISIS fighters
17 Mar 2016	Meanwhile, another Tornado flight Near Kisik used a Paveway to destroy a Daesh command and control position, where a number of terrorists had gathered.	Tornado	Iraq	1 Paveway IV guided bomb	Command control position
17 Mar 2016	The Tornados then interrupted Daesh's efforts to reopen supply routes near Qayyarah, destroying targets with two direct hits from Paveways and then another Paveway and Brimstone missiles were used to destroy three engineering vehicles.	Tornado	Iraq	Paveway IV guided bombs, Brimstone missiles	3 engineering vehicles, 2 targets
18 Mar 2016	On Friday 18 March, Paveway-armed Typhoons struck a group of extremists mustering east of Mosul, while	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters
18 Mar 2016	Tornados similarly hit two Daesh groups gathered for possible attacks near Kisik.	Tornado	Iraq	?	2 groups ISIS fighters
20 Mar 2016	Tornado GR4s were in action again over northern Iraq on Sunday 20 March, when they used Paveways to destroy three weapons caches and supply points several miles south-west of Sinjar.	Tornado	Iraq	Paveway IV guided bombs	3 weapon caches
21 Mar 2016	Two flights of Typhoons provided close air support to the Kurdish forces on Monday 21 March; one flight destroyed a Daesh group that was firing rockets at the Kurds, whilst the other flight successfully attacked three terrorist teams which were planting improvised explosive devices in the Kisik area.	Typhoon	Iraq	?	ISIS fighters, 3 IED teams
21 Mar 2016	Across the border in Syria, careful reconnaissance work had identified a major Daesh weapons storage facility at a site near Ukayrishah, southeast of Raqqa. This intelligence success allowed Tornado GR4s to conduct a very successful strike on Monday night, delivering eight Paveway IVs which destroyed the main warehouse and three support buildings.	Tornado	Syria	8 Paveway IV guided bombs	Weapons facility
22 Mar 2016	In Anbar province, a Tornado flight was able to destroy with Paveway IV guided bombs a staging post used by Daesh extremists.	Tornado	Iraq	Paveway IV guided bombs	Staging post
22 Mar 2016	Further north, near Qayyarah, coalition surveillance aircraft identified renewed attempts by Daesh to build an improvised ramp up to a damaged bridge at a key crossing over the Tigris, just south of Qayyarah; RAF aircraft had	Tornado	Iraq	Paveway IV guided bombs	Bridge ramp

	destroyed the heavy engineering vehicles and a previous attempt at a ramp on 17 March. Two Tornados therefore returned to the bridge and again destroyed the ramp with Paveways, preventing the terrorists from reopening their supply route across the river.				
22 Mar 2016	In eastern Syria, a Reaper used a Hellfire missile to demolish a Daesh storage building near Ukayrishah; the attack was very carefully planned in both timing and weapon choice to avoid causing any damage to a nearby school.	Reaper	Syria	1 Hellfire missile	ISIS building
23 Mar 2016	On Wednesday 23 March, Typhoon FGR4s patrolled over northern Iraq. They used Paveways to destroy a Daesh position south of Sinjar, and a tunnel entrance, two terrorist-held buildings and a mortar team all located near Kisik.	Typhoon	Iraq	Paveway IV guided bombs	ISIS position, tunnel, 2 ISIS buildings, mortar team
24 Mar 2016	The following day, Tornados were again active over Qayyarah; working in close cooperation with a coalition surveillance aircraft, they were able to successfully engage with a Paveway a Daesh mortar team that had opened fire on Kurdish forces.	Tornado	Iraq	1 Paveway IV guided bomb	Mortar team
24 Mar 2016	Across the border in eastern Syria, a Reaper used a Hellfire missile in a successful attack on a Daesh vehicle.	Reaper	Syria	1 Hellfire missile	ISIS vehicle
25 Mar 2016	Typhoons caught extremists mustering near Mosul on Friday 25 March, and struck five positions with Paveway IVs.	Typhoon	Iraq	Paveway IV guided bombs	5 ISIS positions
27 Mar 2016	RAF aircraft continued to provide close air support to the Kurdish forces on Sunday 27 March. Paveways from a Typhoon flight silenced both a sniper and a heavy machine-gun team who were engaged in combat with Kurdish troops near Qayyarah, and a further Paveway accounted for a second heavy machine-gun team that opened fire on the peshmerga south of Sinjar.	Typhoon	Iraq	Paveway IV guided bombs	Sniper, 2 heavy machine guns
28 Mar 2016	The Typhoons were again in action south of Sinjar on Monday 28 March, when they bombed two terrorist-held buildings, before flying to the area around Tall Afar where they struck a third Daesh position.	Typhoon	Iraq	?	2 ISIS buildings, position
29 Mar 2016	Operations over both northern and western Iraq continued on Tuesday 29 March. One Typhoon flight struck a reported Daesh storage building north-east of Mosul,	Typhoon	Iraq	?	ISIS building
29 Mar 2016	A second flight assisted Kurdish forces by bombing a mortar position near Quyyarah, then conducted attacks on terrorist installations nearby; one Typhoon was able to strike simultaneously four tunnel entrances, each with a Paveway, the second aircraft striking three truck-bomb facilities, again each with a Paveway.	Typhoon	Iraq	Paveway IV guided bombs	Mortar. 4 tunnels. 3 truck bomb facilities
29 Mar 2016	In Anbar province, two further truck-bomb workshops near Hit were successfully attacked by Tornados the same day	Tornado	Iraq	?	2 truck bomb facilities
30 Mar 2016	On Wednesday 30 March, Royal Air Force Typhoon FGR4s, flying from Akrotiri, used Paveway IV guided bombs to strike a Daesh-held building and a stockpile of concealed rockets near Fallujah.	Typhoon	Iraq	Paveway IV guided bombs	ISIS building, rocket stockpile

30 Mar 2016	In northern Iraq, near Mosul, a second Typhoon flight destroyed two more buildings used as bases by the terrorists.	Typhoon	Iraq	?	2 ISIS buildings
31 Mar 2016	On Thursday 31 March, RAF Tornado GR4s - supported by a Voyager air refuelling tanker like the Typhoons – provided close air support to Iraqi security forces as they advanced near the city of Hit. A terrorist observation post was identified and the Tornado flight scored a direct hit with a Brimstone missile.	Tornado	Iraq	1 Brimstone missile	Observation post
01 Apr 2016	Typhoons were also active over western Iraq on Friday 1 April. A Daesh truck armed with an anti-aircraft gun was successfully bombed northeast of Ramadi and Paveways were used to destroy a fuel tanker converted into a truck bomb near Hit and a bunker west of Fallujah where terrorists had been spotted.	Typhoon	Iraq	Paveway IV guided bombs	Anti-aircraft gun, truck bomb, bunker
01 Apr 2016	In northern Iraq, a Tornado patrol employed Paveway IVs to destroy three Daesh buildings in the Mosul and Sinjar areas.	Tornado	Iraq	Paveway IV guided bombs	3 ISIS buildings
02 Apr 2016	Coalition surveillance operations had identified Daesh extremists using a former Iraqi military ammunition depot near Qayyarah in northern Iraq. This intelligence indicated that the terrorists were manufacturing improvised explosive devices and other weaponry on the site. As part of a large coalition air strike on terrorist facilities in the area, four RAF Tornado GR4s were tasked with attacking 16 of these storage bunkers on Saturday 2 April. Each aircraft dropped a salvo of four Paveways, and initial indications are that the strike was highly accurate and effective.	Tornado	Iraq	16 Paveway IV guided bombs	IED factory
02 Apr 2016	An RAF Reaper was also active in the Qayyarah area, hunting a Daesh mortar team. The aircraft's crew were able successfully to locate the team, operating a truck-mounted mortar, concealed under trees on the western bank of the Tigris, and secured a direct hit with a Hellfire missile.	Reaper	Iraq	Hellfire missile	Mortar team
04 Apr 2016	On Monday 4 April, Typhoon FGR4s patrolled over Anbar province in western Iraq. East of Fallujah, the Typhoons struck two buildings occupied by Daesh fighters that had been identified by Iraqi ground forces with Paveway IV guided bombs	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
04 Apr 2016	The aircraft then flew to the city of Hit, on the Euphrates river, where a coalition surveillance aircraft had spotted a large group of terrorists positioned in a line of trees on the edge of the town. These extremists were also struck using a Paveway IV.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS fighters
04 Apr 2016	Tornado GR4s assisted Kurdish peshmerga engaged in a firefight north-west of Mosul, hitting their Daesh opponents with a Paveway,	Tornado	Iraq	1 Paveway IV guided bomb	ISIS fighters
04 Apr 2016	Typhoons conducted a successful bombing attack on extremists mustering near Qayyarah.	Typhoon	Iraq	?	ISIS fighters
05 Apr 2016	On Tuesday 5 April, a Typhoon flight operated over northern Iraq, using Paveways to attack three Daesh-held buildings north-east of Mosul, including a weapons store.	Typhoon	Iraq	Paveway IV guided bombs	3 ISIS buildings
05 Apr 2016	They then used a further three Paveways to	Typhoon	Iraq	3 Paveway IV guided bombs	3 ISIS positions

	destroy three Daesh positions some miles south of Kirkuk, including a headquarters building and a base used by a mortar team.				
06 Apr 2016	Wednesday 6 April saw a Typhoon flight tasked to provide close air support to the Iraqi security forces attacking Daesh strongholds in Hit. The Typhoons used Paveways to strike a total of seven targets identified by the aircraft themselves, the Iraqi forces and supporting surveillance aircraft. A rocket-propelled grenade team firing from a building were silenced in a precise strike which avoided causing damage to a nearby mosque. They also destroyed two heavy-machine guns; a third heavy machine-gun on the northern bank of the river; and a series of simultaneous attacks eliminated a fourth machine-gun position and two more groups of Rocket Propelled Grenade (RPG)-armed terrorists.	Typhoon	Iraq	Paveway IV guided bombs	3 RPG team, 4 heavy machine guns
06 Apr 2016	In northern Iraq, Tornado GR4s bombed a network of trenches near Qayyarah.	Tornado	Iraq	?	Trenches
07 Apr 2016	The Tornados were in action again over northern Iraq on Thursday 7 April, when they used a Paveway to destroy a truck-bomb positioned ahead of Kurdish troops south of Kirkuk. They then destroyed a machine-gun position on the Little Zab River using a Brimstone missile.	Tornado	Iraq	1 Paveway IV guided bomb, 1 Brimstone missile	Truck bomb, machine gun position
07 Apr 2016	[On 7 Apr] Near Qayyarah, a Typhoon flight supported Kurdish troops who had come under fire from a number of Daesh positions. Two terrorist-held buildings were destroyed, and a group of extremists caught manoeuvring in the open were also struck with a Paveway.	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings, ISIS fighters
08 Apr 2016	On Friday 8 April, RAF Typhoon FGR4s patrolled the area around Hit. Coalition surveillance aircraft located a concealed improvised artillery piece – known as a “hell cannon” – which had opened fire on the Iraqi troops and was hidden under trees. Working closely with surveillance aircraft, the Typhoon flight was able to score a direct hit using a Paveway IV guided bomb	Typhoon	Iraq	1 Paveway IV guided bomb	Artillery piece
09 Apr 2016	A RAF Reaper remotely piloted aircraft was tasked on Saturday 9 April to hunt for a Daesh mortar team operating in the Hit area. Intensive surveillance allowed the Reaper’s crew to identify and track motorcycle-mounted terrorists who stopped to set up a mortar. They were struck by a Hellfire missile from the Reaper	Reaper	Iraq	1 Hellfire missile	Mortar team
10 Apr 2016	On Sunday 10 April, two flights of Tornado GR4s operated over northern Iraq to support Kurdish ground forces. One flight working east of Mosul demolished a Daesh-held building, suspected to be a local headquarters, using Paveway bombs. The Tornados then hit a building being used to stockpile rockets with another Paveway and used a Brimstone missile to account for a set of rocket launch rails nearby.	Tornado	Iraq	Paveway IV guided bomb, Brimstone missile	ISIS building, rocket store
10 Apr 2016	The second Tornado flight provided support to Kurdish troops near Qayyarah who were coming under fire from a sniper team – they were successfully silenced by a further Paveway.	Tornado	Iraq	1 Paveway IV guided bomb	Sniper
11 Apr 2016	RAF patrols continued in northern Iraq on Monday 11 April. A Typhoon mission destroyed a terrorist machine-gun team east of Mosul, then struck	Typhoon	Iraq	?	Machine-gun team, 3 ISIS positions

	three Daesh positions east of Qayyarah.				
12 Apr 2016	On Tuesday 12 April, a pair of Tornados bombed through thick cloud to hit two terrorist positions, including a rocket launching team, north of Mosul, and a Daesh mortar team near Qayyarah	Tornado	Iraq	?	2 ISIS positions, mortar team
12 Apr 2016	In western Iraq, Typhoons supported the Iraqi counter-terrorist forces pushing into Hit, and used Paveways to strike two buildings held by Daesh rocket-propelled grenade and machinegun teams.	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
13 Apr 2016	Iraqi counter-terrorist forces, supported by Royal Air Force and other coalition aircraft, have made good progress in clearing Daesh extremists out of the town of Hit, strategically located on the southern bank of the Euphrates in western Iraq. On Wednesday 13 April, RAF Typhoon FGR4s assisted in the destruction of one of the remaining terrorist strongpoints on the eastern outskirts of the town, striking, despite the very close proximity of the Iraqi forces, a Daesh machine-gun position with a Paveway IV guided bomb.	Typhoon	Iraq	1 Paveway IV guided bomb	Machine gun position
13 Apr 2016	In northern Iraq, other Typhoons bombed terrorist rocket and mortar teams located some miles south-west of Sinjar, and in the Kisik area, which had opened fire on advancing Kurdish troops.	Typhoon	Iraq	?	Rocket and mortar teams
13 Apr 2016	West of Mosul, Tornado GR4s tracked an articulated lorry carrying a prepared car-bomb on its trailer; despite the lorry's speed, a direct hit was scored on the car-bomb using a Brimstone missile.	Tornado	Iraq	Brimstone missile	Car bomb
13 Apr 2016	The Tornados then used Paveways to destroy two clusters of barges being used by the terrorists to move men and supplies across the Tigris.	Tornado	Iraq	Paveway IV guided bombs	2 clusters of barges
14 Apr 2016	Thursday 14 April saw Tornados patrolling over northern Iraq, providing close air support to Kurdish forces in the areas south of Sinjar and Kisik. Successful Paveway attacks accounted for a Daesh mortar team and destroyed the entrance to a tunnel system where a number of terrorists were reported to be hiding.	Tornado	Iraq	Paveway IV guided bombs	Mortar team, Tunnel system
14 Apr 2016	Near Qayyarah, Typhoons destroyed a Daesh-held building, again using a Paveway IV.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS building
14 Apr 2016	In western Iraq, as the last Daesh fighters pulled out of Hit, a Tornado flight employed two Brimstone missiles to sink boats used by them to cross the Euphrates.	Tornado	Iraq	2 Brimstone missiles	Boats
17 Apr 2016	A Tornado armed reconnaissance patrol over northern Syria on Sunday 17 April bombed a Daesh large calibre mortar position near Manbij	Tornado	Iraq	?	Mortar position
17 Apr 2016	In northern Iraq, a Typhoon flight used a total of eight Paveways in a succession of successful strikes around Kisik, Mosul and south of Kirkuk, destroying a terrorist mortar team, four vehicles, and three Daesh-held buildings.	Typhoon	Iraq	8 Paveway IV guided bombs	Mortar team, 4 vehicles, 3 buildings
18 Apr 2016	The next day, Monday 18 April, a Typhoon mission used Paveways to attack two mortar positions which had opened fire on Kurdish troops near Kisik,	Typhoon	Iraq	Paveway IV guided bombs	2 Mortar positions
18 Apr 2016	A pair of Tornados conducted simultaneous	Tornado	Iraq	?	2 ISIS buildings, bomb factory

	attacks on three Daesh targets north-east of Mosul, hitting a bomb-making factory and two other terrorist-held buildings.				
18 Apr 2016	In western Iraq, Typhoons dropped four Paveways to destroy ten rocket-launchers and a stockpile of ammunition positioned on the bank of the Euphrates.	Typhoon	Iraq	4 Paveway IV guided bombs	10 rocket launchers, ammunition
19 Apr 2016	In northern Iraq, Royal Air Force Tornado GR4s spotted a tractor pulling a large towed mortar near Barimah on Tuesday 19 April. A hit from a Brimstone missile brought the tractor to a halt, and a Paveway IV guided bomb then destroyed the mortar.	Tornado	Iraq	1 Brimstone missile, 1 Paveway IV guided bomb	Mortar, tractor
19 Apr 2016	Near Mosul, a pair of Typhoons accounted for two more mortars, hitting them with Paveways which also destroyed their stockpiled ammunition.	Typhoon	Iraq	Paveway IV guided bombs	2 Mortars, ammunition
19 Apr 2016	In western Iraq, another Tornado mission assisted Iraqi forces, who had liberated the town of Hit the previous week, as they cleared terrorist positions across the Euphrates on the northern bank. The Tornados destroyed two machine-gun positions using Paveway IVs.	Tornado	Iraq	Paveway IV guided bombs	2 mortar positions
20 Apr 2016	On Wednesday 20 April, Typhoons, supported by an RAF Voyager refuelling tanker, provided close air support to Iraqi troops operating north and east of Fallujah. Two successful Paveway attacks hit a machine-gun team in a trench and a mortar in a covered firing position.	Typhoon	Iraq	Paveway IV guided bombs	Machine gun team, mortar
20 Apr 2016	Tornados used Paveway IVs again to attack two Daesh held buildings near Qayyarah.	Tornado	Iraq	Paveway IV guided bombs	2 ISIS buildings
21 Apr 2016	A Tornado mission on Thursday 21 April saw the first use of the RAF's Enhanced Paveway III (EPWIII) against Daesh – a guided bomb with a 2000lb deep penetration warhead. Our aircraft normally carry the smaller Paveway IV guided bombs and Brimstone missiles, which can be carried in larger numbers and are more useful for close air support missions. The EPW III has been held in reserve for use if needed against particularly challenging underground or hardened targets. The Tornados flew as part of a coalition air strike on a large complex of tunnels and bunkers dug into terraced hillsides above the Euphrates in western Iraq, successfully scoring direct hits with a pair of EPW IIIs on two entrances to the bunker network.	Tornado	Iraq	2 Enhanced Paveway III 2,000 lb bomb	Bunker network
22 Apr 2016	Two RAF Reapers operating over Syria conducted strikes on Friday 22 April. Near Abu Kamal, one Reaper provided surveillance support to a successful coalition attack on an improvised weapons factory, then used two of its own Hellfire missiles to demolish a nearby workshop used for constructing car-bombs	Reaper	Syria	2 Hellfire missiles	Car bomb workshop
22 Apr 2016	The second Reaper tracked a terrorist vehicle near Tabuqah, south-west of Raqqa, and destroyed it with a Hellfire.	Reaper	Syria	Hellfire missile	Vehicle
22 Apr 2016	In western Iraq, Typhoons continued to support Iraqi ground forces north of Fallujah, where they conducted four Paveway attacks against snipers, a bunker and an entrenched fighting position.	Typhoon	Iraq	Paveway IV guided bombs	Snipers, bunker, ISIS position
22 Apr 2016	Tornados patrolled southwest of Kirkuk, where two	Tornado	Iraq	2 Paveway IV	Bridge,

	Paveways destroyed a bridge built by Daesh across a canal, and a communications post nearby.			guided bombs	communications post
24 Apr 2016	Typhoons were again in action near Fallujah on Sunday 24 April; one pair silenced a sniper position that was firing on Iraqi troops, while a second pair dropped three Paveways on a Daesh compound.	Typhoon	Iraq	Paveway IV guided bombs	Sniper, ISIS compound
25 Apr 2016	Royal Air Force Typhoon FGR4s patrolled over northern Iraq, supported by a Voyager refuelling tanker. The aircraft were alerted to a group of Daesh terrorists gathering in two buildings south-west of Kirkuk and struck both buildings with Paveway IV guided bombs	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
26 Apr 2016	The following day Tornado GR4s operated over northern Iraq and used a Brimstone missile to destroy a vehicle south-west of Mosul.	Tornado	Iraq	Brimstone missile	Vehicle
26 Apr 2016	Paveway-armed Typhoons were active over western Iraq, striking a group of terrorists engaged in combat with Iraqi ground forces north-east of Fallujah before proceeding to destroy the entrance to a bunker on the bank of the Euphrates.	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters, bunker
27 Apr 2016	A pair of Tornados used Paveway IVs to destroy a terrorist mortar team operating north of the town of Hit, as well as a truck-bomb concealed amidst trees nearby.	Tornado	Iraq	Paveway IV guided bombs	Mortar team, truck bomb
27 Apr 2016	Near Mosul, Tornados hit a mortar position with a Paveway IV.	Tornado	Iraq	1 Paveway IV guided bomb	Mortar
27 Apr 2016	Later in the day, Typhoons struck a machine-gun position in the same area and a Daesh tactical command post north of Fallujah.	Typhoon	Iraq	?	Machine gun, command post
27 Apr 2016	In northern Iraq, Typhoons conducted a series of strikes near Qayyarah, hitting one mortar and two rocket teams, plus another truck-bomb.	Typhoon	Iraq	?	Mortar, rocket teams, truck bomb
28 Apr 2016	Tornados continued their action over the north some distance to the south of Sinjar, striking a further mortar team as well as entrenchments that included the entrance to a tunnel system near Qayyarah. A second Tornado mission silenced a machine-gun position on a former industrial site east of Fallujah.	Tornado	Iraq	?	Mortar team, tunnel, machine gun team
29 Apr 2016	Tornados on a reconnaissance mission used two Brimstone missiles to destroy a T-55 tank and an armed truck despite the efforts by Daesh to conceal both in a palm grove south of Fallujah.	Tornado	Iraq	2 Brimstone missiles	T-55 tank
02 May 2016	Typhoons provided further support to the Iraqi forces near Fallujah, striking a machine-gun team in a bunker and a 23mm anti-aircraft gun.	Typhoon	Iraq	?	Machine gun team, anti-aircraft gun
02 May 2016	In northern Iraq used two Paveways to destroy a Daesh-held building and a nearby weapons store north of Mosul, then flew south to the Qayyarah region where Iraqi forces were engaged in a firefight with a group of terrorists manning a fortified position. Despite the close proximity of the friendly forces, very precise strikes with two Paveways and two Brimstones helped destroy the Daesh group.	Tornado	Iraq	4 Paveway IV guided bombs, 2 Brimstone missiles	ISIS building, weapons store, ISIS fighters
03 May 2016	An RAF Reaper remotely piloted aircraft	Reaper	Iraq	1 Hellfire missile	Truck bomb

	conducting reconnaissance over the village of Batnay, north of Mosul. A truck-bomb was identified inside a compound and struck using a Hellfire missile, resulting in a very large explosion. The Reaper then provided targeting support to a successful strike by coalition fast jets against a group of Daesh fighters and their vehicle.				
03 May 2016	Two Tornados were also tasked to operate over Batnay, and they successfully destroyed a further Daesh vehicle with a direct hit from a Brimstone.	Tornado	Iraq	1 Brimstone	Vehicle
03 May 2016	In western Iraq, Typhoons provided further close air support to Iraqi forces near Fallujah, striking a mortar team and their vehicle hidden under trees south of the city.	Typhoon	Iraq	?	Mortar team, vehicle
04 May 2016	On Wednesday 4 May, a Reaper identified a truck-bomb, concealed underneath a tarpaulin, next to a road in western Iraq. The crew checked that there were no civilians or friendly forces at immediate risk and used a Hellfire missile to score a direct hit on the vehicle, detonating the explosives safely.	Reaper	Iraq	1 Hellfire missile	Truck bomb
04 May 2016	South of Fallujah, a pair of Typhoon FGR4s used a Paveway IV guided bomb to destroy a building where a group of extremists, armed with a heavy calibre automatic weapon.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS building
04 May 2016	In the same area, a Tornado GR4 flight dropped four Paveways on a weapons stockpile, two Daesh-held buildings, and a tunnel entrance.	Tornado	Iraq	4 Paveway IV guided bombs	Weapons stockpile, 2 ISIS buildings, tunnel
04 May 2016	RAF aircraft also supported Kurdish forces in the north of the country, where another Tornado flight bombed a group of Daesh fighters and a mortar team, the latter positioned in a small copse of trees.	Tornado	Iraq	?	ISIS fighters, mortar team
05 May 2016	On Thursday 5 May Tornados Missions in support of Iraqi and Kurdish operations demolished a terrorist position north-east of Mosul on around Mosul and Fallujah,	Tornado	Iraq	?	ISIS position
05 May 2016	Typhoons bombed a tunnel and a mortar south-west of Fallujah.	Typhoon	Iraq	?	Tunnel, mortar
06 May 2016	On Friday 6 May, Daesh terrorists were spotted unloading rockets and mortar projectiles from a number of small boats and a barge on the Euphrates in Anbar province. A Tornado reconnaissance patrol, armed with Brimstone missiles, was first on the scene and prevented the initial load of weapons from being driven away, hitting the terrorists' truck with a Brimstone while they were still loading it.	Tornado	Iraq	Brimstone missile	Vehicle, ammunition
06 May 2016	A Paveway-armed flight of Typhoons then arrived and used its bombs to destroy the weapons on the shore, and sink the barge. The same Typhoon flight also attacked a mortar position south-west of Fallujah.	Typhoon	Iraq	Paveway IV guided bombs	Weapons, boat, mortar position
06 May 2016	A second Tornado flight destroyed two heavy machine-gun positions on the north bank of the Euphrates, downstream from the recently liberated town of Hit.	Tornado	Iraq	?	2 Heavy machine guns
06 May 2016	In northern Iraq, Typhoons struck another mortar, north-west of Mosul.	Typhoon	Iraq	?	Mortar

08 May 2016	Typhoons were active south of Fallujah on Sunday 8 May, where a rocket launcher was identified in the open with three known caches of ammunition stored nearby. All four targets were struck with Paveway IV guided bombs and successfully destroyed.	Typhoon	Iraq	Paveway IV guided bombs	Rocket launcher, 3 caches ammunition
09 May 2016	RAF Typhoon FGR4s, armed with Paveway IV guided bombs, conducted successful attacks on Monday 9 May against a group of Daesh extremists hiding in a tunnel network dug into a riverbank north-west of Kirkuk and against two rocket launcher positions north of Mosul.	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters, 2 rocket launchers
09 May 2016	Other Typhoons, and Tornado GR4s provided close air support to the Iraqi troops operating in the Euphrates valley. The Typhoons struck a mortar position north of the Al Asad airbase,	Typhoon	Iraq	?	Mortar position
09 May 2016	The Tornados destroyed a terrorist command post situated nearby in a riverside building in the midst of a palm grove.	Tornado	Iraq	?	ISIS command post
11 May 2016	On Wednesday 11 May, Tornados again assisted Iraqi ground forces in the Euphrates valley, when they came up against a heavily defended Daesh building, which was demolished with a Paveway	Tornado	Iraq	1 Paveway IV guided bomb	ISIS building
12 May 2016	The following day, a Typhoon flight used three Paveways to hit Daesh positions ahead of a Kurdish offensive to the south-west of Kirkuk.	Typhoon	Iraq	3 Paveway IV guided bombs	ISIS positions
13 May 2016	Two RAF Reapers followed up by providing close air support to the peshmerga as they advanced on Friday 13 May, conducting a total of four attacks with three Hellfires and a GBU-12 guided bomb. They destroyed mortar teams and a Daesh supply truck, as well as providing surveillance support to a coalition air strike which destroyed a terrorist stronghold	Reaper	Iraq	3 Hellfire missiles, 1 GBU-12 bomb	Mortar teams, vehicle
13 May 2016	Tornados were meanwhile again assisting Iraqi ground forces in the Euphrates valley, and destroyed two Daesh-held buildings on the northern bank of the river.	Tornado	Iraq	?	2 ISIS building
15 May 2016	On Sunday 15 May, a pair of Typhoons conducted successful simultaneous attacks north-west of Fallujah, which destroyed a bunker and an engineering vehicle.	Typhoon	Iraq	?	Bunker, engineering vehicle
16 May 2016	RAF support to Iraqi ground forces along the Euphrates continued on Monday 16 May, when Tornados used a Paveway bomb to destroy a small Daesh bunker containing ammunition supplies.	Tornado	Iraq	1 Paveway IV guided bombs	Bunker
17 May 2016	Tornados operated north of Mosul on Tuesday 17 May and conducted a successful attack with Paveways on a group of three buildings near Bashiqaq, which housed weapon stockpiles.	Tornado	Iraq	Paveway IV guided bombs	3 ISIS buildings
17 May 2016	The same day, a Typhoon flight used a pair of Paveways to destroy two machine-gun positions which Daesh were attempting to establish on the northern bank of the Euphrates near Hit following their recent defeat by the Iraqis in the town.	Typhoon	Iraq	2 Paveway IV guided bombs	2 machine-gun positions
18 May 2016	On Wednesday 18 May, flights of Typhoons and Tornados both participated in a series of attacks on Daesh installations north of Tal Afar. The	Typhoon	Iraq	8 Paveway IV guided bombs	ISIS buildings

	Typhoons employed eight Paveways to attack a cluster of buildings used by the terrorists for command and control, accommodation, and vehicle and weapon storage.				
18 May 2016	The Tornados delivered four Paveways to destroy a further command post and three ammunition stockpiles.	Tornado	Iraq	4 Paveway IV guided bombs	Command post, ammunition stockpile
19 May 2016	Tornados from RAF Akrotiri patrolled the Mosul area on Thursday 19 May. North of the city, they used a Paveway IV guided bomb to destroy a tunnel in which a group of Daesh extremists were based, then moved to the east of Mosul where 15 rocket launchers had been stored by the terrorists. Three Paveway IVs were used against ammunition stockpiles, before three Brimstone missiles were used to destroy the rocket launchers. The small warhead and high precision of the Brimstones avoided any structural damage being caused to the surrounding buildings.	Tornado	Iraq	4 Paveway IV guided bomb, 3 Brimstone missiles	Tunnel, 15 rocket launchers, ammunition stockpile
19 May 2016	Typhoons were also active over northern Iraq that day, operating north of Tall Afar where they employed a pair of Paveways to demolish a large weapons store, then two more Paveways against two other Daesh-held buildings.	Typhoon	Iraq	4 Paveway IV guided bombs	Weapons store, 2 ISIS buildings
19 May 2016	Intelligence analysis pinpointed two Daesh headquarters in north-west Syria, located 10 and 25 miles respectively north of Aleppo near the fighting along the Mar'a Line. A pair of Tornado GR4s were tasked with their destruction on Friday 20 May. One of the command posts was in a very solidly constructed building, this was targeted with two Enhanced Paveway II 1000lb bombs. A pair of 500lb Paveway IVs were used against the second headquarters. Both targets were destroyed by direct hits.	Tornado	Syria	2 Enhanced Paveway II 1,000lb bombs, 2 Paveway IV guided bombs	2 ISIS headquarters
19 May 2016	With the Iraqi ground forces preparing to launch their offensive to liberate Fallujah, Typhoons provided close air support to their operations around the outskirts of the city. A stockpile of components for improvised explosive devices was destroyed with one Paveway and a terrorist strong-point with a second.	Typhoon	Iraq	2 Paveway IV guided bombs	IEDs, strongpoint
22 May 2016	Further close air support was provided around Fallujah on Sunday 22 May, when Tornados bombed a tunnel complex where weapons and ammunition were stored.	Tornado	Iraq	?	Tunnel complex
23 May 2016	On Monday 23 May Tornados used a Brimstone missile against a further mortar team near Fallujah.	Tornado	Iraq	1 Brimstone missile	Mortar team
23 May 2016	Iraqi ground forces were in close combat north of Habbaniyah assisted by a pair of RAF Typhoons that struck a mortar team and a rocket position with Paveways	Typhoon	Iraq	Paveway IV guided bombs	Mortar team, rocket position
23 May 2016	Across the border, in eastern Syria, an RAF Reaper identified a terrorist checkpoint north-west of Dayr az Zawr and destroyed it with a Hellfire missile.	Reaper	Syria	1 Hellfire missile	ISIS checkpoint
23 May 2016	In the north of the country two more Typhoons contributed to a coalition strike on Daesh installations west of Mosul, a workshop preparing truck-bombs was assigned as the RAF target and	Typhoon	Iraq	1 Paveway IV guided bomb	Truck bomb workshop

	successfully demolished by a Paveway.				
24 May 2016	A Royal Air Force Reaper remotely piloted aircraft patrolled near Bayji on Tuesday 24 May, where Daesh terrorists were engaged in combat with Iraqi forces. The Reaper used one Hellfire missile to destroy an artillery gun that was firing on the Iraqi troops, it then used a second Hellfire to break up an attempted Daesh attack along a gully.	Reaper	Iraq	2 Hellfire missiles	Artillery gun, ISSI fighter
24 May 2016	In northern Iraq, Tornado GR4s attacked a Daesh-held building near Qayyarah with a Paveway IV guided bomb.	Tornado	Iraq	1 Paveway IV guided bomb	ISIS building
24 May 2016	With the Iraqi offensive to liberate Fallujah well under way, a pair of Paveway-armed Typhoons provided close air support west of the city, where they destroyed three stockpiles of terrorist weapons and ammunition.	Typhoon	Iraq	?	3 weapon stockpiles
25 May 2016	Typhoon operations west of Fallujah continued on Wednesday 25 May, when they patrolled the area leading to Habbaniyah and on to the outskirts of Ramadi. They conducted a series of Paveway IV attacks, accounting for two Daesh positions, including a heavy machine-gun team, as well as an artillery piece and a bunker.	Typhoon	Iraq	?	
26 May 2016	They returned to the same area the following day, hitting an ammunition cache that had been spotted near the destroyed bunker. They then struck a building north-east of Fallujah where a large group of terrorists had been reported massing for a counter-attack.	Typhoon	Iraq	?	Ammunition cache, ISIS building
26 May 2016	In the north, Tornados bombed two terrorist-held buildings and a tunnel near Mosul.	Tornado	Iraq	?	2 ISIS buildings, tunnel
26 May 2016	Later in the day, a Typhoon flight was tasked with eliminating a group of suicide bombers who had been spotted north of Baghdad, preparing for an attempted diversionary attack on the security cordon around the city; a Paveway IV demolished the building in which they were hiding.	Typhoon	Iraq	1 Paveway IV guided bomb	Suicide bombers
27 May 2016	Friday 27 May again saw intensive air operations along the Euphrates valley around Fallujah and the wider area. Typhoons silenced two sniper teams with Paveway strikes, then intervened in a closely fought combat between Iraqi troops and Daesh near Habbaniyah; particular care and precision was needed to avoid causing casualties to the Iraqi forces, but three successful Paveway attacks were accomplished.	Typhoon	Iraq	Paveway IV guided bombs	2 sniper teams, ISIS fighters
27 May 2016	A second Typhoon flight destroyed a light anti-aircraft gun that was firing on Iraqi personnel near Hit,	Typhoon	Iraq	?	Anti-aircraft gun
27 May 2016	A pair of Tornados used a Brimstone missile to destroy a truck-bomb in the same area.	Tornado	Iraq	1 Brimstone missile	Truck bomb
27 May 2016	Despite these efforts around Fallujah, the Kurdish forces in the north were not neglected: Tornados bombed a mortar position near Mosul.	Tornado	Iraq	?	Mortar position
27 May 2016	A Reaper was also active over the Euphrates, using a Hellfire to destroy a vehicle-mounted terrorist team, armed with rocket-propelled grenades, on the outskirts of Fallujah.	Reaper	Iraq	1 Hellfire missile	ISIS fighters

29 May 2016	There were two further attacks near Mosul on Sunday 29 May, conducted by Typhoons against another mortar position and a large truck-bomb that was being prepared for use.	Typhoon	Iraq	?	Mortar position, truck bomb
29 May 2016	In the south, near Hit, a Tornado patrol destroyed a Daesh vehicle with a Brimstone missile.	Tornado	Iraq	1 Brimstone missile	Vehicle
30 May 2016	Intelligence work had identified two factory sites in northern Syria, between Al Bab and Manbij, producing improvised explosive devices. A pair of Tornados, armed with 1,000lb Enhanced Paveway II bombs, conducted a deliberate strike on the two sites on Monday 30 May.	Tornado	Iraq	Enhanced Paveway II 1,000lb bombs	IED factory
30 May 2016	A Tornado reconnaissance patrol near Mosul used a Paveway to attack a group of terrorists, and a Brimstone to destroy their support vehicle.	Tornado	Iraq	1 Paveway IV guided bomb, 1 Brimstone missile	ISIS fighters, vehicle
30 May 2016	Typhoons also destroyed three weapon stockpiles to the east of Mosul.	Typhoon	Iraq	?	3 weapon stockpiles
30 May 2016	Another Typhoon mission maintained a close air support presence over Fallujah, and, working very closely with a coalition surveillance aircraft, used Paveway IVs to attack an armed truck and a Daesh fighting position.	Typhoon	Iraq	Paveway IV guided bombs	Armed truck, ISIS position
31 May 2016	On Tuesday 31 May, Tornados used Paveway IV guided bombs to destroy two heavy machine-guns that were threatening the advancing Iraqi forces; one, mounted on a truck concealed in a palm grove north of Fallujah, the second in a building on the southern outskirts of the city.	Tornado	Iraq	Paveway IV guided bombs	2 heavy machine guns
31 May 2016	In northern Iraq, a Typhoon and a Reaper provided assistance to the Kurdish peshmerga and Iraqi forces. The Typhoons destroyed the headquarters of a local Daesh commander to the south-east of Mosul, using Paveway IVs,	Typhoon	Iraq	Paveway IV guided bombs	ISIS HQ
31 May 2016	The Reaper assisted a coalition aircraft in targeting an engineering vehicle used for constructing defences near Qayyarah, then used its own Hellfire missiles against two terrorist mortar teams.	Reaper	Iraq	Hellfire missiles	2 mortar teams
31 May 2016	Both the Typhoons and the Reaper then flew south to add their weight to air operations over Fallujah... The Reaper kept close watch on a group of terrorists test-firing and loading weapons, including a heavy machine gun, onto a supply truck. The reaper then destroyed the truck with a direct hit from a Hellfire missile.	Reaper	Iraq	1 Hellfire missile	Weapons truck
31 May 2016	Both the Typhoons and the Reaper then flew south to add their weight to air operations over Fallujah. The Typhoons successfully attacked a third heavy machine-gun position	Typhoon	Iraq	?	Machine gun position
31 May 2016	Further west, along the Euphrates, near the recently liberated town of Hit, a second Reaper provided support to Iraqi forces consolidating the security of the surrounding area. The Reaper destroyed both a machine-gun team and a vehicle carrying a recoilless anti-tank gun with its Hellfires.	Reaper	Iraq	Hellfire missiles	Machine gun team, anti-tank gun
01 Jun 2016	Reapers were in action again on Wednesday 1 June. One patrolled the skies above Qayyarah, where a camouflaged set of loaded rocket launch rails were spotted and destroyed with a Hellfire	Reaper	Iraq	1 Hellfire missile	Rocket launcher rails

	missile.				
01 Jun 2016	A second Reaper patrolled over eastern Syria and western Iraq, and located a terrorist check-point on the Iraqi side of the border, west of Al Qa'im, which was stopping the free movement of traffic. Again, a Hellfire missile was employed and the check-point successfully attacked.	Reaper	Iraq	1 Hellfire missile	ISIS checkpoint
01 Jun 2016	Two Tornado missions provided reconnaissance and close air support to Iraqi forces around Fallujah. One pair of Tornados used Paveway IVs to conduct simultaneous attacks on two Daesh-held buildings close to a canal to the south of the city; one building housed a terrorist sniper team, the other a recoilless anti-tank artillery piece. Both targets were destroyed by direct hits. The second Tornado flight successfully silenced a heavy-machine-gun positioned in a third Daesh stronghold after it opened fire on the advancing Iraqi troops.	Tornado	Iraq	Paveway IV guided bombs	Sniper team, anti-tank artillery piece, heavy machine gun
02 Jun 2016	One Tornado flight conducted four attacks with Paveway IV guided bombs, striking a bunker and three teams of terrorists armed with an anti-tank gun, rocket-propelled grenades and a heavy machine-gun.	Tornado	Iraq	Paveway IV guided bombs	Bunker, 3 groups ISIS fighters
02 Jun 2016	A second Tornado mission delivered simultaneous attacks on two Daesh-held buildings, then a third bombing attack on a heavy machine-gun position that had opened fire on Iraqi troops.	Tornado	Iraq	?	2 ISIS buildings, heavy machine gun position
02 Jun 2016	The Typhoon flight dealt with a further artillery piece, using a Paveway IV.	Typhoon	Iraq	1 Paveway IV guided bombs	Artillery piece
02 Jun 2016	In northern Iraq, another pair of Typhoons struck a group of terrorists spotted advancing towards peshmerga positions near Kisik, then headed to an area south-east of Mosul where they used three Paveways to attack more extremists mustering in and around a large warehouse.	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters
03 Jun 2016	Operations over southern Fallujah continued on Friday 3 June, when a pair of Typhoons conducted Paveway attacks on two Daesh strongpoints which had opened fire on Iraqi forces with machine-guns and other weapons.	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS strongpoints
04 Jun 2016	Two Reaper remotely piloted aircraft patrolled over the city the following day, exploiting their long endurance and excellent surveillance capabilities to provide persistent overwatch for the Iraqi troops on the ground. During the course of Saturday, the Reapers delivered five attacks, using two GBU-12 guided bombs and three Hellfire missiles, against two machine-gun teams, two Daesh firing positions and a tunnel network. They also provided assistance to five other air strikes conducted by coalition fast jets on terrorist positions.	Reaper	Iraq	2 GBU-12 bombs, 3 Hellfire missiles	2 machine gun teams, 2 positions, tunnel
05 Jun 2016	Tornados were again in action over southern Fallujah on Sunday 5 June. A factory producing improvised truck-bombs was struck with a pair of Paveway IVs, destroying two vehicles that were being prepared for use, and two further attacks with Paveways accounted for two anti-tank weapons.	Tornado	Iraq	4 Paveway IV guided bombs	Truck bomb factory, 2 anti-tank weapons
06 Jun 2016	Royal Air Force Typhoon FGR4s continued to provide close air support on Monday 6 June to the	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS fighters

	Iraqi operation to liberate Fallujah. A coalition surveillance aircraft spotted a group of Daesh terrorists taking up position in a building to the west of the city, allowing them to be quickly targeted by the Typhoons using a Paveway IV guided bomb.				
06 Jun 2016	In northern Iraq, intelligence had located a large truck-bomb factory near Mosul and two RAF Tornado GR4s armed with Paveway IV guided bombs were tasked with its destruction. A single EPW II destroyed the factory	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb	Truck bomb factory
07 Jun 2016	Operations around Fallujah continued on Tuesday 7 June, when Tornados successfully attacked a weapons and ammunition stockpile hidden to the south-east of the city.	Tornado	Iraq	?	Weapons stockpile
08 Jun 2016	The following day, Tornados conducted three attacks to support Iraqi ground forces engaged in firefights with terrorists inside Fallujah. Despite the close proximity of the Iraqi forces, the GR4s were able to deliver simultaneous attacks with Paveway IVs against two strongpoints housing Daesh machine-gun and artillery teams. They then struck a further machine-gun position when it also opened fire on the Iraqis.	Tornado	Iraq	Paveway IV guided bombs	3 machine gun teams, artillery
08 Jun 2016	Typhoons also contributed to the Fallujah operations, using Paveway IVs against two groups of Daesh extremists armed with a light machine-gun and rocket-propelled grenades.	Typhoon	Iraq	Paveway IV guided bombs	2 groups ISIS fighters
08 Jun 2016	In northern Iraq, another Typhoon mission successfully attacked a Daesh-held building east of Mosul	Typhoon	Iraq	?	ISIS building
08 Jun 2016	In northern Iraq... a Reaper used a GBU-12 bomb to demolish a building where another coalition surveillance aircraft had observed terrorists unloading supplies.	Reaper	Iraq	1 GBU-12 bomb	ISIS building
08 Jun 2016	A second Reaper patrolled over Syria and employed a Hellfire missile to destroy a Daesh truck travelling at speed on the open road south of Raqqa.	Reaper	Syria	1 Hellfire missile	Vehicle
09 Jun 2016	Royal Air Force Tornado GR4s continued to provide close air support on Thursday 9 June to Iraqi ground forces fighting to liberate Fallujah. One Tornado flight conducted successful attacks using Paveway IV guided bombs against four Daesh-held buildings from which terrorists were directing machine-gun fire at the Iraqi forces.	Tornado	Iraq	Paveway IV guided bombs	4 ISIS buildings
09 Jun 2016	A second Tornado mission used a Paveway IV to destroy a building west of the city, within which a terrorist armed vehicle was reported by nearby Iraqi troops to be concealed.	Tornado	Iraq	1 Paveway IV guided bomb	Armed vehicle
10 Jun 2016	On Friday 10 June, a Reaper worked in close conjunction with other coalition aircraft to engage Daesh rocket and mortar teams operating near Qayyarah. The Reaper provided support to two coalition strikes on rocket positions, then used its own Hellfire missiles and a GBU-12 guided bomb against a further set of rocket launchers and a mortar.	Reaper	Iraq	Hellfire missiles, GBU-12 bomb	Rocket launchers, mortar
10 Jun 2016	A Typhoon FGR4 flight was also operating near Qayyarah, and they conducted attacks against five targets: three buildings where Daesh extremists	Typhoon	Iraq	?	3 ISIS buildings, 2 rocket launch positions

	had been spotted gathering and two more rocket launcher positions.				
10 Jun 2016	Northeast of Mosul, another pair of Typhoons destroyed a heavy machine-gun team with a Paveway IV.	Typhoon	Iraq	1 Paveway IV guided bombs	Heavy machine gun team
10 Jun 2016	To the south, Tornados again provided close air support over Fallujah, using their Paveways against three strongpoints which housed two machine-gun teams and a group of terrorists armed with rocket-propelled grenades.	Tornado	Iraq	Paveway IV guided bombs	2 machine gun teams, ISIS fighters
11 Jun 2016	An RAF Reaper continued to hunt terrorist rocket and mortar teams around Qayyarah on Saturday 11 June, conducting three attacks with Hellfire missiles.	Reaper	Iraq	Hellfire missiles	Rocket and mortar teams
12 Jun 2016	Another Reaper patrolled over Qayyarah on Sunday 13 [mistake in orig. – Sunday is 12] June, and also fired three Hellfires, its targets were two terrorist vehicles and a group of Daesh fighters.	Reaper	Iraq	3 Hellfire missiles	2 vehicles, ISIS fighters
12 Jun 2016	Typhoons were also active nearby and used Paveway IVs to attack two groups of terrorists caught in the open and two Daesh held buildings.	Typhoon	Iraq	Paveway IV guided bombs	2 groups ISIS fighters, 2 ISIS buildings
12 Jun 2016	A Typhoon mission also joined Tornados operating over Fallujah; the Typhoons used one Paveway IV against a machine-gun position,	Typhoon	Iraq	1 Paveway IV guided bomb	Machine gun position
12 Jun 2016	The Tornados delivered five very precise attacks in very demanding circumstances, with Iraqi troops extremely close to the terrorist targets. Paveway IVs were used to destroy a rocket team, an anti-tank gun, a heavily armed pick-up truck and a heavy machine-gun team, whilst a Brimstone missile silenced a light machine-gun.	Tornado	Iraq	Paveway IV guided bombs, 1 Brimstone missile	Rocket team, anti-tank gun, armed truck, 2 machine guns
12 Jun 2016	During Sunday night, a pair of Tornados armed with 1000lb Enhanced Paveway II guided bombs conducted a carefully planned strike on a factory to the south-west of Qayyarah where truck-bombs were being built by Daesh. Four EPW IIs hit their targets accurately and initial reports suggest the mission was a success.	Tornado	Iraq	4 Enhanced Paveway II 1,000lb bombs	Truck bomb factory
13 Jun 2016	On Monday 13 June, a pair of Typhoons assisted Iraqi troops as they engaged in very close combat inside Fallujah. Our aircraft delivered four precision attacks, all with Paveway IV guided bombs, that destroyed five strongpoints defended by Daesh terrorists armed with machine-guns, rocket-propelled grenades and an anti-tank gun.	Typhoon	Iraq	Paveway IV guided bombs	5 strongpoints
14 Jun 2016	The Typhoons continued operations over Fallujah the following day, and again worked very closely with the Iraqi units hitting five terrorist positions including sniper and machine-gun teams.	Typhoon	Iraq	?	5 ISIS positions
14 Jun 2016	In northern Iraq, around Qayyarah, a second Typhoon flight and a Reaper supported Iraqi and Kurdish units. The Typhoons attacked a Daesh-held building with a Paveway IV,	Typhoon	Iraq	1 Paveway IV guided bombs	ISIS building
14 Jun 2016	In northern Iraq, around Qayyarah ... the Reaper conducted four attacks: a GBU-12 guided bomb was used against a group of terrorists gathered at a weapons stockpile, and three mortars were attacked in turn with Hellfire missiles. The Reaper also tracked the arrival of a truck-bomb and	Reaper	Iraq	GBU-12 bomb, Hellfire missiles	ISIS fighters, 3 mortars

	observed it being concealed inside a garage – this surveillance enabled a successful attack to then be delivered by a coalition aircraft which destroyed the vehicle.				
15 Jun 2016	Two Typhoon flights saw action over Fallujah on Wednesday 14 June [mistake in original – 15 Jun], and between them they conducted seven successful attacks with Paveway IVs. Again all were in very close support of Iraqi ground forces, accounting for terrorist teams armed with heavy weapons, rocket propelled grenades, and a 23mm anti-aircraft gun.	Typhoon	Iraq	Paveway IV guided bombs	ISSI fighters, anti-aircraft gun
16 Jun 2016	With Iraqi forces making steady progress pushing into Fallujah, two flights of Royal Air Force Typhoon FGR4s contributed to the coalition's air support provided on Thursday 16 June. Our aircraft successfully attacked four Daesh machine-gun positions that were identified by the Iraqi ground forces, using Paveway IV guided bombs.	Typhoon	Iraq	Paveway IV guided bombs	4 machine gun positions
17 Jun 2016	Friday 17 June saw an RAF Reaper patrolling over northern Iraq, north of Bayji. The Reaper's crew identified a large mortar and a Daesh truck, both were destroyed by Hellfire missiles	Reaper	Iraq	Hellfire missiles	Truck, mortar
18 Jun 2016	A second Reaper operated in the same area the following day, supporting an offensive by Iraqi forces. It used four Hellfires and a GBU-12 guided bomb to successfully engage three armed pickup trucks which were firing at the Iraqi troops, a fourth vehicle and a trench position	Reaper	Iraq	4 Hellfire missiles, GBU-12 bomb	3 armed trucks, vehicle, position
18 Jun 2016	In north-west Iraq, in Harunah, two pairs of Tornado GR4s, armed with eight 1000lb Enhanced Paveway IIs conducted a pre-planned strike on a complex of buildings which had been identified by intelligence as a headquarters, accommodation and weapons facility for Daesh foreign fighters. All four target buildings were destroyed.	Tornado	Iraq	8 Enhanced Paveway II 1,000lb bombs	ISIS complex
18 Jun 2016	Another Reaper patrolled over Syria and attacked a Daesh vehicle southwest of Manbij, destroying it with a Hellfire missile.	Reaper	Syria	1 Hellfire missile	Vehicle
19 Jun 2016	Typhoons were in action over Fallujah on Sunday 19 June, providing close air support to Iraqi troops who had penetrated to the city centre. Six terrorist strongpoints housing machine-gun, artillery and rocket-propelled grenade teams were struck in a series of precision Paveway attacks.	Typhoon	Iraq	Paveway IV guided bombs	6 strongpoints
19 Jun 2016	In northern Iraq, a Reaper used a pair of Hellfires to engage two groups of Daesh extremists north of Bayji,	Reaper	Iraq	2 Hellfire missiles	2 groups ISIS fighters
19 Jun 2016	While Tornados used a Brimstone missile against a third group in the same area, and a Paveway IV against a rocket-launcher north of Mosul.	Tornado	Iraq	Brimstone missile, 1 Paveway IV guided bomb	ISIS fighters, rocket launcher
20 Jun 2016	On Monday 20 June, an armed reconnaissance patrol by Tornados over eastern Syria used a Brimstone missile to attack a truck-bomb hidden under a tarpaulin between two ruined buildings north of Dayr az Zawr. The Brimstone scored a direct hit; a massive explosion followed, which confirmed how heavily the vehicle had been laden with explosives	Tornado	Syria	1 Brimstone missile	Truck bomb
20 Jun 2016	Typhoons and Tornados were again active over	Tornado	Iraq	Paveway IV	4 machine gun

	Fallujah, and used Paveway IV bombs to destroy four Daesh machine-gun posts engaged in very close combat with the Iraqi security forces.			guided bombs	posts
20 Jun 2016	Further west, near Raqqa, a Reaper conducted three attacks with Hellfire missiles against a Daesh vehicle and extremists on foot.	Reaper	Syria	Hellfire missiles	ISIS fighters, vehicle
20 Jun 2016	Typhoons and Tornados were again active over Fallujah, and used Paveway IV bombs to destroy four Daesh machine-gun posts engaged in very close combat with the Iraqi security forces.	Typhoon	Iraq	Paveway IV guided bombs	4 Machine gun posts
21 Jun 2016	Reaper patrols north of Bayji continued on Tuesday 21 June, and five attacks were conducted in support of Iraqi offensive operations. Hellfires accounted for two supply vehicles and a truck armed with an anti-aircraft gun, as well as an observation post dug-in on a ridgeline. A GBU-12 guided bomb destroyed a Daesh mortar team, spotted as they fired at an Iraqi position.	Reaper	Iraq	Hellfire missiles, 1 GBU-12 bomb	2 vehicles, 1 armed truck, observation post, mortar team
21 Jun 2016	Typhoon flight operated further north, north-west of Mosul, where they used a Paveway IV to hit a rocket-launcher site.	Typhoon	Iraq	1 Paveway IV guided bombs	Rocket-launcher
22 Jun 2016	Typhoon FGR4s, based at RAF Akrotiri and supported by a Voyager air refuelling tanker, flew close air support missions over Fallujah on Wednesday 22 June. They successfully attacked three Daesh strongpoints with Paveway IV guided bombs, the targets had been identified by Iraqi ground forces as being manned by machine-gun and rocket-propelled grenade teams.	Typhoon	Iraq	Paveway IV guided bombs	3 ISIS strongpoints
22 Jun 2016	North of Bayji, Tornado GR4s and a Reaper supported an Iraqi offensive operation. The Tornados employed one Paveway IV and three Brimstone missiles to destroy four Daesh fighting positions along a defensive embankment,	Tornado	Iraq	1 Paveway IV guided bomb, 3 Brimstone missiles	4 ISIS positions
22 Jun 2016	North of Bayji the Reaper used a single GBU-12 guided bomb to destroy two more positions	Reaper	Iraq	1GBU-12 bomb	2 ISIS positions
23 Jun 2016	A second Reaper continued support in the area into Thursday 23 June and used a Hellfire missile to eliminate a terrorist spotted with a man portable surface-to-air missile.	Reaper	Iraq	1 Hellfire missile	Surface-to-air missile
23 Jun 2016	Typhoons continued their support over Fallujah as well, conducting a Paveway IV attack on a machine-gun team.	Typhoon	Iraq	Paveway IV guided bombs	Machin
23 Jun 2016	Another Typhoon flight operated over northern Syria, close to the Turkish border and destroyed two Daesh held buildings several miles east of Azaz.	Typhoon	Syria	?	2 ISIS buildings
24 Jun 2016	On Friday 24 June, a Reaper supported an Iraqi offensive near Sharqat, west of Kirkuk. Its crew used a Hellfire missile to destroy an engineering vehicle which was being used to create defences ahead of the Iraqi advance.	Reaper	Iraq	1 Hellfire missile	Engineering vehicle
24 Jun 2016	Tornados patrolled further north and employed a Paveway IV against a mortar position north-west of Mosul.	Tornado	Iraq	1 Paveway IV guided bombs	Mortar
24 Jun 2016	Typhoons conducted further operations over Fallujah and were called in by the Iraqi army to destroy two machine-gun positions on the	Typhoon	Iraq	?	2 machine gun positions

	northern outskirts of the city.				
25 Jun 2016	The following day saw a Reaper again on patrol near Sharqat, and this aircraft delivered three successful attacks with Hellfire missiles against a truck, a group of terrorists, and a van which Daesh had been seen loading with weapons and ammunition.	Reaper	Iraq	Hellfire missiles	ISIS fighters, vehicles
26 Jun 2016	Intelligence had determined that Daesh were using a large concrete bunker in western Iraq as a weapons facility. Due to the massive construction, built during the Saddam era, it was decided to use four Storm Shadow missiles against it, as the weapon has particularly good capabilities against such a challenging target. The missiles were launched on Sunday 26 June by two Tornados, all four Storm Shadows scored direct hits and penetrated deep within the bunker	Tornado	Iraq	4 Storm Shadow missiles	Weapons bunker
26 Jun 2016	Also in western Iraq, south-east of Hit, a Typhoon flight used a single Paveway IV to destroy a much smaller bunker built by Daesh south-east of Hit.	Typhoon	Iraq	1 Paveway IV guided bomb	Bunker
26 Jun 2016	In northern Iraq, a Reaper provided close air support near Sharqat for the third successive day, using its Hellfires to attack a vehicle, a group of terrorists on foot, and a team planting improvised explosive devices.	Reaper	Iraq	Hellfire missiles	Vehicle, ISIS fighters, IED team
27 Jun 2016	In Syria, a pair of Typhoons conducted a successful attack with Paveway IV guided bombs against a Daesh stronghold on the south-western outskirts of Manbij.	Typhoon	Syria	Paveway IV guided bombs	ISIS stronghold
28 Jun 2016	Typhoons executed a similar attack on Tuesday 28 June against a mortar position close to Manbij.	Typhoon	Syria	?	Mortar position
28 Jun 2016	Over Iraq, a Reaper supported Iraqi ground forces near Sharqat in the north of the country. The Reaper used Hellfire missiles against two groups of extremists caught in the open, including a machine-gun team engaged in combat with the Iraqi troops.	Reaper	Iraq	Hellfire missiles	2 groups ISIS fighters, machine-gun team
29 Jun 2016	A Typhoon struck two vehicles and a large group of extremists with Paveway IV bombs west of Fallujah	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters, 2 vehicles
29 Jun 2016	Two Reapers destroyed a further four vehicles and a group of fighters, using Hellfire missiles and a GBU-12 guided bomb. One Reaper observed the Daesh vehicles refusing to stop and pick up fellow armed extremists trying to escape on foot.	Reaper	Iraq	Hellfire missiles, 1 GBU-12 bomb	4 vehicles, ISIS fighters
29 Jun 2016	Another Reaper was active near Sharqat, where it destroyed two vehicles with Hellfire missiles and attacked a group of terrorists with a GBU-12 bomb.	Reaper	Iraq	2 Hellfire missiles, 1 GBU-12 bomb	2 vehicles, ISIS fighters
30 Jun 2016	With Daesh forces continuing to flee in defeat from their former stronghold of Fallujah, on Thursday 30 June Royal Air Force Tornado GR4s patrolled over the desert of Anbar province and located a group of terrorist vehicles a number of miles to the south-west of Ramadi. Attacks with four Brimstone missiles and a Paveway IV guided bomb successfully accounted for five trucks	Tornado	Iraq	4 Brimstone missiles, 1 Paveway IV guided bomb	5 trucks
30 Jun 2016	In northern Iraq, a pair of Typhoons used Paveway IVs to bomb two Daesh mortar teams	Typhoon	Iraq	Paveway IV guided bombs	2 mortar teams

	some 25 miles south-east of Mosul				
30 Jun 2016	A Reaper conducted two attacks with Hellfire missiles against terrorists fighting Iraqi forces near Qayyarah.	Reaper	Iraq	Hellfire missiles	ISIS fighters
01 Jul 2016	The following day, Tornados used a Paveway IV to destroy a Daesh defensive position in the Qayyarah area.	Tornado	Iraq	Paveway IV guided bombs	
03 Jul 2016	On Sunday 3 July, two RAF Reapers provided close air support to Iraqi security forces mounting an offensive near Sharqat. The Reapers gave targeting and surveillance assistance to three air strikes by coalition fast jets and conducted seven attacks of their own. They used six Hellfire missiles and a GBU-12 guided bomb against various groups of Daesh extremists engaged in close combat with the Iraqi troops, and a truck.	Reaper	Iraq	6 Hellfire missiles, 1 GBU-12 bomb	ISIS fighters, truck
03 Jul 2016	In north-western Iraq, a Tornado flight used a Paveway IV to destroy a Daesh-held building near Tal Afar,	Tornado	Iraq	Paveway IV guided bombs	ISIS building
03 Jul 2016	Typhoons successfully targeted a tunnel and trench network south-east of Hit, striking with two Paveway IV	Typhoon	Iraq	2 Paveway IV guided bombs	Tunnel network
04 Jul 2016	The Typhoons then moved further north and attacked a terrorist muster point some 25 miles south-east of Mosul.	Typhoon	Iraq		
04 Jul 2016	On Monday 4 July, a pair of Typhoon FGR4s used Paveway IV guided bombs to destroy a number of rocket launchers near Qayyarah.	Typhoon	Iraq	Paveway IV guided bombs	Rocket launchers
05 Jul 2016	Typhoons were again active near Qayyarah on Tuesday 5 July, where they conducted two successful Paveway IV attacks that destroyed a mortar team and a nearby ammunition stockpile.	Typhoon	Iraq	Paveway IV guided bombs	Mortar team, ammunition
06 Jul 2016	On Wednesday 6 July, Tornado GR4s used Paveway IVs to strike a river crossing near Qayyarah which had been improvised by Daesh following successful coalition attacks against their supply routes.	Tornado	Iraq	Paveway IV guided bombs	Bridge
06 Jul 2016	A Reaper patrolled near Sharqat in support of Iraqi ground forces, and used Hellfire missiles against a motorcycle mounted terrorist observation team. It then struck a group of extremists identified manoeuvring in the open nearby.	Reaper	Iraq	Hellfire missiles	Observation team, ISIS fighters
07 Jul 2016	In the early hours of Thursday 7 July, an RAF Reaper assisted Iraqi ground forces operating near Sharqat in the north of the country. The Reaper's crew conducted two successful precision attacks using Hellfire missiles against two small groups of Daesh extremists firing on the Iraqi troops from a fortified position. Having located a larger group of terrorists, the Reaper then provided targeting assistance to an attack by coalition fast jets.	Reaper	Iraq	Hellfire missiles	ISIS fighters
07 Jul 2016	In northern Iraq, Tornado GR4s dropped a Paveway IV guided bomb which destroyed a heavy position 15 miles east of Mosul	Tornado	Iraq	1 Paveway IV guided bomb	ISIS position
07 Jul 2016	Typhoon FGR4s meanwhile patrolled to the north of Ramadi and used a Paveway IV against a group of Daesh fighters concealed in a tree line.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS fighters

08 Jul 2016	Friday 8 July saw a Reaper again supporting operations around Sharqat. It conducted four attacks, with three Hellfires and one GBU-12 guided bomb, against several groups of terrorists manoeuvring in a gully, and an ammunition truck which was being loaded with rocket-propelled grenades.	Reaper	Iraq	3 Hellfire missiles, 1 GBU-12 bomb	Groups of ISIS fighters, Ammunition truck
08 Jul 2016	Over Anbar province, Typhoons maintained their patrols along the Euphrates north and west of Ramadi and supported an Iraqi unit engaged in very close combat with three Daesh heavy machine-gun and rocket-propelled grenade teams. Despite the proximity of the Iraqi troops, the three positions were successfully struck with Paveway IVs.	Typhoon	Iraq	Paveway IV guided bombs	3 heavy machine guns, RPG team
09 Jul 2016	A Reaper employed a Hellfire on Saturday 9 July to destroy a truck carrying a Daesh group north of Bayji	Reaper	Iraq	Hellfire missile	ISIS truck
10 Jul 2016	On Sunday 10 July, Tornados conducted an armed reconnaissance mission in the Mosul area. North-west of the city, they used Paveway IVs to attack a command and control post, a mortar team, and a weapons cache, then used a Brimstone missile to destroy a second weapons stockpile..	Tornado	Iraq	Paveway IV guided bombs, 1 Brimstone missile	Command and control post, mortar team, 2 weapons caches
10 Jul 2016	A second Tornado flight operated over Anbar province conducted four attacks with Brimstone missiles to destroy a group of engineering vehicles, which Daesh had mustered to construct positions 35 miles south-west of Ramadi.	Tornado	Iraq	Brimstone missiles	Engineering vehicles
11 Jul 2016	On Monday 11 July, Tornado GR4s conducted an armed reconnaissance patrol in the Sharqat area in support of Iraqi ground forces. Our aircraft were able to identify a mortar position and delivered a successful attack using a Paveway IV guided bomb.	Tornado	Iraq	1 Paveway IV guided bomb	Mortar position
12 Jul 2016	Patrols by Paveway-armed Typhoon FGR4s continued over northern Iraq on Tuesday 12 July. One flight destroyed a heavily armed Daesh truck near Qayyarah, taking great care to avoid causing damage to a nearby mosque.	Typhoon	Iraq	?	Armed truck
12 Jul 2016	Near Tal Afar a second Typhoon mission struck another armed truck concealed in a covered parking bay – a large secondary explosion followed as the vehicle's cargo of ammunition detonated.	Typhoon	Iraq	?	Armed truck
12 Jul 2016	That night close to the Iraqi border with Syria, a meeting of Daesh commanders was known to be in progress at Kerabilah and a pair of Tornados conducted an attack with a salvo of four Paveway IVs that completely demolished the building.	Tornado	Iraq	4 Paveway IV guided bombs	ISIS commanders
12 Jul 2016	The Tornados then flew north-east to the area north of Bayji and used Brimstone missiles to destroy two terrorist truck-bombs.	Tornado	Iraq	1 Brimstone missile	2 Truck bombs
13 Jul 2016	On Wednesday 13 July a Tornado mission also used Brimstones to destroy two 120mm heavy mortars some distance from Hit,	Tornado	Iraq	Brimstone missiles	2 heavy mortars
13 Jul 2016	Typhoons destroyed a Daesh strong-point south of Sinjar using Paveway IVs.	Typhoon	Iraq	Paveway IV guided bombs	Strongpoint

14 Jul 2016	On Thursday 14 July, two Royal Air Force Typhoon FGR4s patrolling the Mosul area spotted Daesh personnel using a truck-mounted crane to perform maintenance work on an armoured vehicle. Paveway IV guided bombs destroyed both vehicles with direct hits.	Typhoon	Iraq	Paveway IV guided bombs	Crane, armoured vehicle
15 Jul 2016	The following day, Typhoons operating further west, conducted a Paveway bomb attack on a mortar position concealed in a tree-line a number of miles south of Sinjar.	Typhoon	Iraq	Paveway IV guided bombs	Mortar
17 Jul 2016	Typhoons also patrolled over Anbar province in western Iraq on Sunday 17 July. Some miles northwest of Ramadi, they observed a vehicle being loaded with weapons from a terrorist storehouse. A Paveway IV destroyed both the store and the supply truck.	Typhoon	Iraq	1 Paveway IV guided bomb	Weapons store, vehicle
18 Jul 2016	The next day, again in Anbar Province, Typhoons observed terrorist activity around a tent hidden in a dense palm grove. An attack with a Paveway IV not only struck the terrorists but also set fire to two stockpiles of ammunition and equipment and damaged a Daesh truck parked nearby, again under the trees.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS fighters, 2 weapons stockpiles
19 Jul 2016	On Tuesday 19 July, Tornado GR4s used a Paveway IV against a mortar position near Qayyarah,	Tornado	Iraq	1 Paveway IV guided bomb	Mortar position
19 Jul 2016	Typhoons employed a Paveway bomb to attack another mortar position south-east of Mosul.	Typhoon	Iraq	1 Paveway IV guided bombs	Mortar position
20 Jul 2016	North of Mosul, a Daesh-held building was identified in the path of a Kurdish advance. This was successfully targeted by Tornados using a Paveway IV guided bomb.	Tornado	Iraq	1 Paveway IV guided bomb	ISIS building
21 Jul 2016	Tornados again operated over northern Iraq on Thursday 21 July. A Paveway IV bomb attack destroyed a Daesh-held building, along with a terrorist vehicle, a few miles to the south of Bashiqaq.	Tornado	Iraq	Paveway IV guided bombs	ISIS building, vehicle
22 Jul 2016	On Friday 22 July, RAF Typhoon FGR4s flew an armed reconnaissance mission along the Euphrates valley. They identified and struck a Daesh mortar team on the northern bank of the river with a Paveway IV.	Typhoon	Iraq	1 Paveway IV guided bomb	Mortar team
23 Jul 2016	A Reaper operated in close support of Iraqi ground forces in northern Iraq, around the Sharqat and Qayyarah areas, on Saturday 23 July. The Reaper's crew conducted a successful attack, using a Hellfire missile against a Daesh mortar team firing on the Iraqis. They also provided targeting support to several highly accurate strikes by both artillery and coalition fast jets, which destroyed a number of rocket launchers.	Reaper	Iraq	1 Hellfire missile	Mortar team
24 Jul 2016	The following day, another Reaper flew over northern Syria to support Syrian moderate opposition forces fighting Daesh terrorists along the so-called Mar'a Line. The Reaper used a Hellfire missile to destroy a terrorist position which had been firing at the Syrians. The Reaper then used its sensors to locate a second position, which was successfully struck by another coalition aircraft.	Reaper	Syria	1 Hellfire missile	ISIS position

26 Jul 2016	On Tuesday 26 July, Royal Air Force Typhoon FGR4s provided overwatch, and conducted a successful attack with a Paveway IV guided bomb against a terrorist mortar position.	Typhoon	Iraq	1 Paveway IV guided bomb	Mortar position
27 Jul 2016	Tornado GR4s were also active in the same area the following day, when they used a pair of Paveway IVs to demolish a building which had been identified as a safe house used by Daesh foreign fighters near Sharqat.	Tornado	Iraq	2 Paveway IV guided bombs	ISSI building
27 Jul 2016	Meanwhile, Typhoons conducted a successful Paveway attack on two terrorist strongpoints, close to Syria's border with Turkey, at the northern end of the so-called Mar'a Line.	Typhoon	Syria	Paveway IV guided bombs	ISIS strongpoint
28 Jul 2016	RAF aircraft continued to provide close air support to the Syrian democratic forces on Thursday 28 July, when a Reaper patrolled the Manbij area. The Reaper's crew conducted four attacks with Hellfire missiles against several groups of Daesh fighters, and assisted in four further attacks by coalition fast jets.	Reaper	Syria	Hellfire missiles	ISIS fighters
28 Jul 2016	In Iraq, Brimstone-armed Tornados destroyed a mortar near Qayyarah	Tornado	Iraq	Brimstone missile	Mortar
28 Jul 2016	A pair of Typhoons used a Paveway IV to strike a Daesh bunker on the shores of Lake Qadisiyah.	Typhoon	Iraq	1 Paveway IV guided bomb	Bunker
30 Jul 2016	A Reaper was again in action over Manbij on Saturday 30 July, when it conducted two attacks with Hellfire missiles on Daesh fighters and also provided targeting assistance to a coalition air strike	Reaper	Syria	Hellfire missiles	ISIS fighters
31 Jul 2016	Sunday 31 July saw Tornados patrolling near Qayyarah, where they used a Paveway IV to bomb a group of terrorists spotted in the open..	Tornado	Iraq	1 Paveway IV guided bomb	ISIS fighters
01 Aug 2016	In Mosul, extensive surveillance had established that Daesh were using a palace, built by the former dictator Saddam Hussein, as a major headquarters and training centre for foreign terrorist recruits. The complex, sat in a large secure compound next to the Tigris, included not just the main palace building, used as an accommodation and meeting venue by the terrorists, but also a number of more discreet outbuildings used for command and control, training, internal security and repression. A large coalition air package drawn from several nations conducted a carefully coordinated attack on the complex on the afternoon of Monday 1 August. The British contribution was a pair of Tornados, armed with the largest guided bombs in the RAF's inventory, the 2000lb Enhanced Paveway III, which were used to target first the headquarters buildings, then a security centre. Initial analysis indicates that the coalition mission was successful.	Tornado	Iraq	Enhanced Paveway III 2,000lb bombs	ISIS HQ,
01 Aug 2016	Over Syria, Typhoons again flew close air support missions for the Syrian democratic forces on 1 August as they advanced into Manbij. A network of fortified positions on the south-western edge of the town, held by a large number of Daesh extremists, was destroyed by a salvo of eight Paveway IVs.	Typhoon	Syria	8 Paveway IV guided bombs	ISIS positions
02 Aug 2016	With Iraqi ground forces continuing their offensive	Reaper	Iraq	2 Hellfire missiles	ISIS fighters

	to clear Daesh from the area around Qayyarah, a Royal Air Force Reaper provided close air support on Tuesday 2 August. The Reaper observed terrorists attempting to salvage a heavy machine-gun from a truck that had been hit by a previous coalition strike and successfully engaged them with a Hellfire missile. A second group of extremists were also attacked with another Hellfire. UK aircraft then provided targeting support that allowed a coalition fast jet to destroy a mortar team.				
02 Aug 2016	Over Syria, a pair of Typhoons were similarly supporting the Syrian democratic forces as they fought to secure Manbij. A number of buildings on the south-western edge of the town had been fortified by Daesh as a major defensive position. These were successfully struck by the Typhoons, using eight Paveway IV guided bombs, despite the proximity of the moderate Syrian forces	Typhoon	Syria	8 Paveway IV guided bombs	ISIS positions
03 Aug 2016	On Wednesday 3 August, Tornados destroyed a Daesh mortar position while patrolling the north and west of Mosul	Tornado	Iraq	?	Mortar position
04 Aug 2016	The following day, Tornados were again active over northern Iraq and conducted a Paveway IV attack on a machine-gun position in the hills to the north-west of Tall Afar...	Tornado	Iraq	Paveway IV guided bombs	Machine gun
04 Aug 2016	Meanwhile, Typhoons destroyed two Daesh-held buildings in western Iraq, while assisting Iraqi forces in the Euphrates Valley.	Typhoon	Iraq	?	2 ISIS buildings
07 Aug 2016	Daesh were observed to be attempting to extract oil from one of the eastern Syrian oilfields which had been successfully targeted by previous coalition air strikes earlier this year. On Sunday 7 August, two Tornados attacked a convoy of tankers north of Abu Kamal. Four Paveway IVs and four Brimstone missiles accounted for a number of vehicles, denying the terrorists the oil revenue they desperately seek.	Tornado	Syria	4 Paveway IV guided bombs , 4 Brimstone missiles	Oil tankers
07 Aug 2016	In northern Iraq, a Reaper and Typhoons were again supporting the Iraqi operations around Qayyarah. The Reaper conducted Hellfire attacks on a mortar team that was firing on the Iraqis and on a set of rocket rails. It then helped other coalition aircraft to successfully target an improvised armoured vehicle.	Reaper	Iraq	Hellfire missiles	Mortar, rocket rails
07 Aug 2016	The Typhoons also used three Paveway IVs to destroy three Daesh-held buildings.	Typhoon	Iraq	3 Paveway IV guided bombs	3 ISIS buildings
08 Aug 2016	A Reaper flew overwatch for Iraqi ground forces operating near Qayyarah in northern Iraq on Monday 8 August and used a Hellfire missile to destroy a terrorist vehicle as it was tracked at speed along an open road.	Reaper	Iraq	1 Hellfire missile	Vehicle
08 Aug 2016	To the east of Mosul, a light artillery piece had been identified, positioned within a building. This was successfully attacked by Typhoons with a Paveway IV guided bomb.	Typhoon	Iraq	1 Paveway IV guided bomb	Artillery piece
09 Aug 2016	Typhoons were active over the same area the following day, conducting attacks with Paveway Ivs which destroyed three Daesh-held buildings and a vehicle some 20 miles south-east of Mosul.	Typhoon	Iraq	Paveway IV guided bombs	3 ISIS buildings, vehicle
09 Aug 2016	The same day, a Reaper was again assigned to	Reaper	Iraq	2 Hellfire	Mortar,

	support Iraqi operations near Qayyarah. Its crew observed a Daesh team setting up a mortar and attacked with a Hellfire. It then used a second missile to destroy a mechanical excavator which was being used to help plant improvised explosive devices and tear up the carriageway of the main highway, in an attempt to hamper the Iraqi advance.			missiles	excavator
10 Aug 2016	On Wednesday 10 August, a Reaper patrolled over Manbij, where Syrian democratic forces have cleared Daesh from much of the town. The Reaper intervened in close combat that developed just to the north of Manbij and successfully used Hellfires to clear two groups of extremists engaged in a fire fight with the Syrian moderates	Reaper	Syria	Hellfire missiles	2 groups ISIS fighters
10 Aug 2016	Over Iraq, Typhoons bombed an armed truck concealed under trees some miles to the south-east of Hit. A number of secondary explosions followed as associated ammunition caught fire.	Typhoon	Iraq	?	Armed truck
13 Aug 2016	A Royal Air Force Reaper remotely piloted aircraft provided overwatch to Iraqi ground forces clearing terrorist positions in the Qayyarah region of northern Iraq. A number of groups of Daesh fighters, armed with rocket-propelled grenades, were active in the area, but were tracked down by the Reaper's crew using the aircraft's very capable surveillance sensors. Three successful attacks were conducted using the Reaper's own Hellfire missiles, and the Reaper also made possible a further five attacks by coalition fast jets, which accounted for other groups of fighters, two vehicles and a mortar team.	Reaper	Iraq	Hellfire missiles	ISIS fighters
14 Aug 2016	A second Reaper ensured that the Iraqi units continued to receive close support and this aircraft delivered two Hellfire attacks, again on Daesh rocket-propelled grenade teams.	Reaper	Iraq	Hellfire missiles	ISIS fighters
15 Aug 2016	Typhoon FGR4s, based at RAF Akrotiri and supported by a Voyager tanker, patrolled over western Iraq. Some miles north of Ramadi, they used a Paveway IV guided bomb against a terrorist mortar position.	Typhoon	Iraq	1 Paveway IV guided bomb	Mortar position
16 Aug 2016	Tornado GR4s and a Reaper conducted armed reconnaissance patrols over Syria; a coalition surveillance aircraft spotted a Daesh heavy artillery piece to the south of Manbij, and the Tornados were tasked to deal with it. The gun and an ammunition stockpile were concealed within a treeline at the edge of a road, but a pair of Paveway IVs struck their targets.	Tornado	Syria	2 Paveway IV guided bombs	Artillery piece, ammunition stockpile
16 Aug 2016	The Reaper operated over south-eastern Syria, where it used a Hellfire to destroy an anti-aircraft gun mounted on a truck, around 40 miles north of Al Tanf.	Reaper	Syria	1 Hellfire missile	Anti-aircraft gun
17 Aug 2016	A Reaper was again in action near Qayyarah, when it successfully engaged yet another group of Daesh terrorists armed with rocket-propelled grenades; a number of secondary explosions followed the impact of the Hellfire missile as the grenades caught fire.	Reaper	Iraq	1 Hellfire missile	ISIS fighters
17 Aug 2016	Typhoons also continued their patrols over western Iraq, along the Euphrates valley to the northwest of Ramadi, and here they used a Paveway IV to destroy an armed truck which the	Typhoon	Iraq	1 Paveway IV guided bomb	Armed truck

	extremists had tried in vain to conceal under a large vehicle shelter.				
18 Aug 2016	Thursday 18 August: Tornados operating over northern Iraq. A coalition aircraft spotted a group of extremists hidden in a position beneath trees on the southern bank of the Great Zab River, and these were successfully attacked by the GR4s using a Paveway IV.	Tornado	Iraq	1 Paveway IV guided bomb	ISIS fighters
18 Aug 2016	The Tornados then conducted a further such attack on a Daesh machine-gun position, several miles to the south of Sinjar.	Tornado	Iraq	1 Paveway IV guided bomb	Machin gun position
19 Aug 2016	A Reaper and a pair of Tornados worked together near Qayyarah against a number of terrorist rocket and mortar teams. The Reaper observed a mortar firing from a compound at Iraqi forces, and responded with a successful Hellfire missile attack.	Reaper	Iraq	Hellfire missiles	Mortar
19 Aug 2016	The Reaper then provided support to the Tornados as they used a pair of Paveway IVs against a widely dispersed group of rocket-launchers. The Tornados also used a Brimstone missile to destroy a second mortar team, and another Paveway IV to strike an additional set of rocket rails.	Tornado	Iraq	3 Paveway IV guided bombs, 1 Brimstone missile	Rocket launchers, mortar team, rocket rails
20 Aug 2016	Another Reaper patrolled over Qayyarah, again hunting for a reported mortar team. The target was tracked down and successfully prosecuted using a Hellfire.	Reaper	Iraq	1 Hellfire missile	Mortar team
21 Aug 2016	A Typhoon flight bombed an armed truck a few miles to the north-west of Ramadi, on the northern bank of the Euphrates	Typhoon	Iraq	?	Armed truck
21 Aug 2016	Tornados were active once more over northern Iraq; a Paveway IV attack struck a terrorist position to the south-west of Kirkuk, and a Brimstone missile was used to destroy a T-62 tank operated by Daesh to the north of Mosul.	Tornado	Iraq	Paveway IV guided bombs, 1 Brimstone missile	ISIS position, T-62 tank
22 Aug 2016	On Monday 22 August, two Royal Air Force Typhoon FGR4s operated over northern Iraq. A group of Daesh extremists had been located, sheltering in a cave amongst hills on the southern bank of the Tigris, overlooking the river, some miles to the north-west of Mosul. The Typhoons used one Paveway IV guided bomb to attack the cave entrance, and a second to destroy the terrorists' vehicle, parked on a nearby track.	Typhoon	Iraq	2 Paveway IV guided bombs	Cave, vehicle
24 Aug 2016	Iraqi security forces continue to mount offensive operations against Daesh near Qayyarah, and they were well supported on Wednesday 24 August by coalition aircraft, including an RAF Reaper and a pair of Tornado GR4s. The GR4s were primarily deployed in the reconnaissance role, but conducted two attacks with Brimstone missiles against terrorists engaged in combat with the Iraqi troops.	Tornado	Iraq	Brimstone missiles	ISIS fighters
24 Aug 2016	The Reaper provided surveillance support to other coalition aircraft which delivered an air strike on a Daesh stronghold, and carried out five attacks with its own weaponry: four Hellfire missiles accounted for two mortar teams and two groups of terrorists manoeuvring along narrow alleyways, and a GBU-12 laser guided bomb destroyed several rocket-launchers which another coalition	Reaper	Iraq	4 Hellfire missiles, 1 GBU-12	2 mortar teams, ISIS fighters, rocket launchers

	surveillance aircraft had spotted set up outside the town.				
25 Aug 2016	Typhoons, supported as is normal by a Voyager air refuelling tanker, patrolled the Euphrates valley west of Ramadi on Thursday 25 August, where they used a Paveway IV to attack a Daesh-held building on the northern river-bank.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS building
25 Aug 2016	Over Syria, a pair of Tornados used two Brimstone missiles to engage a number of terrorists spotted occupying positions under trees in farmland in the east of the country.	Tornado	Syria	2 Brimstone missiles	ISIS fighters
27 Aug 2016	A Reaper supported the Iraqi security forces advancing near Qayyarah. The aircraft spotted a heavy vehicle transporter being used by Daesh to move one of the mechanical excavators that are used to construct their fortified positions. Both the transporter and the excavator were destroyed by coalition fast jets, guided to the scene by the Reaper. The Reaper crew subsequently tracked an armed Daesh truck withdrawing from a nearby compound and attempted to conceal the vehicle in shed. A direct hit from a Hellfire missile destroyed the building and the truck inside.	Reaper	Iraq	1 Hellfire missile	Armed truck
28 Aug 2016	A Typhoon patrol over western Iraq used a pair of Paveway IV guided bombs to destroy a dispersed group of rocket-launching rails hidden amidst trees on the northern bank of the Euphrates.	Typhoon	Iraq	2 Paveway IV guided bombs	Rocket rails
29 Aug 2016	Typhoons operating ten miles north of Mosul delivered a Paveway attack on a bunker and tunnel network. A number of secondary explosions ensued, most likely from stored ammunition.	Typhoon	Iraq	Paveway IV guided bombs	Bunker, tunnel network
30 Aug 2016	Typhoons operating over the same area north of Mosul conducted successful attacks with Paveway IVs on a further three tunnels. An excavator preparing defences nearby was also destroyed.	Typhoon	Iraq	Paveway IV guided bombs	3 tunnels, excavator
31 Aug 2016	A Typhoon patrol found its target 15 miles to the east of Mosul, where advancing Iraqi forces had identified a Daesh-held building. It was hit with a Paveway IV leading to number of secondary explosions.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS building
01 Sep 2016	A Reaper remotely piloted aircraft operated over Raqqa in Syria on Thursday 1 September, where its crew helped identify a large stockpile of explosive materials at an industrial site, awaiting the manufacture of improvised explosive devices and other home-made weaponry. An attack using Hellfire missiles destroyed much of the stockpile, and left the remainder on fire.	Reaper	Syria	Hellfire missiles	Explosives stockpile
01 Sep 2016	Near Qayyarah, Tornados providing close air support to Iraqi ground forces conducted a successful Paveway IV attack against a weapons cache hidden in a line of trees.	Tornado	Iraq	Paveway IV guided bombs	Weapons cache
03 Sep 2016	On Saturday 3 September, a Reaper kept close watch on a Daesh vehicle check-point in northwestern Iraq, in the Tall Afar region, which was being used by the terrorists to harass local civilian traffic. The Reaper's crew waited patiently until there were no civilian vehicles in the area, then destroyed the check-point with a direct hit from a Hellfire.	Reaper	Iraq	1 Hellfire missile	ISIS checkpoint
04 Sep 2016	The following day, Typhoons patrolled over	Typhoon	Iraq	1 Paveway IV	ISIS fighters

	western Iraq and engaged a group of terrorists who had been spotted several miles north of Ramadi. Although they attempted to seek cover beneath some trees, the extremists were struck accurately by a Paveway IV.			guided bomb	
06 Sep 2016	Qayyarah remains the focus for significant Iraqi offensive operations, and Royal Air Force aircraft have continued to contribute to the supporting coalition air effort. On Tuesday 6 September, two Tornado GR4s used Paveway IV guided bombs and Brimstone missiles to attack a large dispersed group of mechanical excavators and heavy trucks being used by Daesh to construct defensive positions in the area; at least seven vehicles were destroyed outright.	Tornado	Iraq	Paveway IV guided bombs, Brimstone missiles	Excavators, trucks
08 Sep 2016	Tornados continued operations over northern Iraq on Thursday 8 September: intelligence had identified a bomb-making factory and associated terrorist training facility in neighbouring compounds to the west of Tall Afar. A pair of Tornados struck both targets accurately with Paveway IVs, then proceeded to provide close air support to local Iraqi forces, in the course of which they conducted a further successful Paveway attack against two rocket launchers.	Tornado	Iraq	Paveway IV guided bombs	Bomb-making factory, training facility, 2 rocket launchers
08 Sep 2016	A second pair of Tornados meanwhile patrolled east of Mosul, where they used Paveway IVs against two groups of Daesh extremists who had been spotted by a coalition surveillance aircraft.	Tornado	Iraq	Paveway IV guided bombs	2 groups ISIS fighters
09 Sep 2016	On Friday 9 September, Typhoon FGR4s were tasked to engage a howitzer which Daesh were attempting to bring into position some miles north of Ramadi. The artillery piece and its towing vehicle were well-concealed under trees, but the Typhoons were nevertheless able to score a direct hit with a Paveway IV	Typhoon	Iraq	1 Paveway IV guided bomb	Howitzer
09 Sep 2016	Near Qayyarah, a Reaper remotely piloted aircraft spotted a mortar team as they uncovered their weapon and began firing at Iraqi positions, but a Hellfire missile quickly removed the threat.	Reaper	Iraq	1 Hellfire missile	Mortar team
10 Sep 2016	Reaper operations over Qayyarah continued on both Saturday 11 and Sunday 12 September [Note - Incorrect dates in original]. On Saturday, a Reaper used a Hellfire to destroy a vehicle-borne mortar team, then located a large group of twelve rocket launchers being readied for firing. A Hellfire from the Reaper killed the terrorist who was preparing the weapons for launch, and the Reaper was then able to guide a coalition jet to the scene, so that it could use its larger guided bombs to destroy the rocket launchers	Reaper	Iraq	1 Hellfire missile	Mortar team, ISIS fighter
12 Sep 2016	The following day, another Reaper successfully used a Hellfire against a further terrorist mortar team near Qayyarah	Reaper	Iraq	1 Hellfire missile	Mortar team
12 Sep 2016	In eastern Syria, Tornados provided support to the Syrian democratic forces by using a salvo of four Paveway IVs to demolish a large building in which Daesh fighters, including snipers, had fortified themselves.	Tornado	Syria	4 Paveway IV guided bombs	ISIS building
12 Sep 2016	On Monday 12 September, one Reaper successfully located and attacked, using Hellfire missiles, three different terrorist mortars near	Reaper	Iraq	Hellfire missiles	3 mortars

	Qayyarah.				
14 Sep 2016	Another Reaper accounted for a further two mortar teams on Wednesday 14 September, one near Qayyarah, the other closer to Al Hawd.	Reaper	Iraq	?	2 Mortar teams
14 Sep 2016	The same day, Typhoon FGR4s patrolled further north, around Mosul; south-east of the city, they were tasked to engage two Daesh-held buildings which Iraqi forces had encountered out in the countryside. Both targets were demolished using Paveway IV guided bombs.	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
15 Sep 2016	On Thursday 15 September, a Reaper tracked terrorists carrying mortar ammunition near Al Hawd. The terrorists led them to a concealed mortar, which was duly struck with a Hellfire.	Reaper	Iraq	Hellfire missile	Mortar
15 Sep 2016	In western Iraq, a group of Daesh had been identified hiding in a cave some ten miles south-east of Haditha; two Typhoons scored a direct hit on the cave entrance with one Paveway IV, then used a second to destroy their truck parked some distance away.	Typhoon	Iraq	2 Paveway IV guided bombs	Cave, truck
16 Sep 2016	Tornado GR4s patrolled the Euphrates valley in western Iraq on Friday 16 September. North-west of Ramadi, they successfully attacked, using Paveway IV guided bombs, a Daesh-held building.	Tornado	Iraq	Paveway IV guided bombs	ISIS building
17 Sep 2016	On Saturday 17 September, a Reaper joined other coalition aircraft in a strike against a reported Daesh position south of Dayr az Zawr in Syria, but this was later alleged to have in fact been a position held by Syrian regime forces; a detailed investigation into the incident is being conducted by the coalition. [See 'U.S. Admits It Bombed Syrian Troops', Daily Beast 13/4/2017 https://www.thedailybeast.com/us-admits-it-bombed-syrian-troops]	Reaper	Syria	?	ISIS position later identified as Syrian regime position
17 Sep 2016	In Iraq, however, a second Reaper provided effective close air support to Iraqi forces operating near Qayyarah. The Reaper provided surveillance support to two successful coalition air strikes on Daesh mortar teams, then used its own Hellfire missiles to destroy a 152mm howitzer and its tow vehicle.	Reaper	Iraq	Hellfire missiles	Mortar teams, howitzer
18 Sep 2016	A Reaper was again active near Qayyarah on Sunday 18 September, when it destroyed a terrorist truck with a Hellfire missile.	Reaper	Iraq	1 Hellfire missile	Truck
18 Sep 2016	To the north of Mosul, Tornados employed an Enhanced Paveway II and a Paveway IV to strike a Daesh strongpoint and an armed truck, then used a second Paveway IV to attack a group of terrorists on foot.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb, Paveway IV guided bombs	Strongpoint, armed truck, ISIS fighters
18 Sep 2016	Intelligence had identified a Daesh facility in western Iraq, close to the Syrian border, and Typhoon FGR4s used three Paveway IV bombs against this target...	Typhoon	Iraq	3 Paveway IV guided bombs	ISIS facility
18 Sep 2016	Then provided close air support to Iraqi forces operating north-west of Ramadi: three more Paveway IVs accounted for a group of rocket launchers and a weapons cache.	Typhoon	Iraq	3 Paveway IV guided bombs	Rocket launchers, weapons cache
19 Sep 2016	Operations in the area north of Ramadi continued on Monday 19 September, when Tornados used	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb,	ISIS supply store, HQ

	an Enhanced Paveway II guided bomb to destroy a Daesh supply store, and two Paveway IVs to destroy a neighbouring headquarters.			2 Paveway IV guided bombs	
19 Sep 2016	Tornados also operated over north-western Iraq, where a Brimstone missile was used to destroy a terrorist vehicle spotted some ten miles north-west of Tall Afar.	Tornado	Iraq	Brimstone missile	Vehicle
20 Sep 2016	Paveway IV-armed Typhoons bombed a Daesh fuel store north of Ramadi on Tuesday 20 September,	Typhoon	Iraq	Paveway IV guided bombs	ISIS fuel store
20 Sep 2016	A Reaper flew overwatch for an Iraqi army brigade as it advanced near Sharqat. The Reaper provided support to two coalition air attacks which destroyed a truck bomb, another terrorist vehicle and a large group of extremists, then used a GBU-12 guided bomb to conduct its own attack on a further group of insurgents spotted in the open. The Reaper's crew tracked two terrorists as they went to a building and collected a second truck-bomb which was concealed under a carport, then followed the truck-bomb as it was driven away from an inhabited area. As the truck bomb rendezvoused with another Daesh vehicle, it was struck with a Hellfire missile. Both vehicles were destroyed by the subsequent blast.	Reaper	Iraq	GBU-12 bomb, 1 Hellfire missile	ISIS fighters, truck bomb, vehicle
21 Sep 2016	On Wednesday 21 September, a Reaper and two flights of Tornados again provided close air support to Iraqi forces near Sharqat. A Hellfire from the Reaper killed a number of terrorists and badly damaged their nearby vehicle,	Reaper	Iraq	1 Hellfire missile	ISIS fighters, vehicle
21 Sep 2016	A Brimstone and two Paveway IVs from the Tornados struck another two groups of terrorists and a truck. The Tornados also used a Paveway IV to sink a barge that was being used to ferry a truck-bomb across the Tigris.	Tornado	Iraq	3 Paveway IV guided bombs, 1 Brimstone missile	2 groups ISIS fighters, barge, truck bomb
21 Sep 2016	A Reaper patrolled over eastern Syria and north-western Iraq, and destroyed a terrorist check-point in the Tall Afar region with a Hellfire.	Reaper	Iraq	1 Hellfire missile	ISIS checkpoint
21 Sep 2016	In western Iraq, Typhoons bombed a bunker on the northern bank of the Euphrates.	Typhoon	Iraq	?	Bunker
22 Sep 2016	Operations near Sharqat and Qayyarah continued on Thursday 22 September. South-west of Sharqat, a Reaper kept watch as a terrorist truck collected weapons and equipment from three different locations; it was then destroyed with a Hellfire missile. The Reaper's crew then tracked a second vehicle, waited until the Daesh occupants got out, and struck them with another Hellfire.	Reaper	Iraq	2 Hellfire missiles	Truck, ISIS fighters
22 Sep 2016	A Tornado mission conducted a successful Brimstone attack on an armed truck hidden in a culvert beneath a railway line near Qayyarah,	Tornado	Iraq	Brimstone missile	Armed truck
22 Sep 2016	A Tornado then flew to the north-east of Mosul where a Paveway IV was used to destroy a Daesh-held building.	Tornado	Iraq	1 Paveway IV guided bomb	ISIS building
23 Sep 2016	On Friday 23 September, a Royal Air Force Reaper scouted ahead of the Iraqi advance near al Hawd. The Reaper's crew spotted a Daesh truck on the move, loaded with rockets. A direct hit from a Hellfire missile on the driver's cab and engine brought the vehicle to an immediate halt	Reaper	Iraq	1 Hellfire missile	Truck, rockets

	and a second missile safely destroyed its cargo.				
23 Sep 2016	In western Iraq, two Typhoons patrolled to the north-west of Ramadi, where they used a pair of Paveway IV guided bombs against two terrorist mortar positions located within a palm grove.	Typhoon	Iraq	2 Paveway IV guided bombs	2 mortar positions
24 Sep 2016	On Saturday 24 September, a Reaper was again flown over the Tigris, near Qayyarah, where it provided surveillance support to a coalition air strike that destroyed a Daesh headquarters. The Reaper then turned its attention to several groups of extremists out in the open. Hellfire attacks struck one mortar team and two groups of terrorists. A few survivors of the attacks then boarded a motorboat, hoping to make their escape across the Tigris, but a fourth Hellfire sank them at the mooring.	Reaper	Iraq	4 Hellfire missiles	ISIS fighters, boat
25 Sep 2016	On Sunday 25 September, a Reaper was again back in the skies near Qayyarah where it conducted four attacks on Daesh targets using its Hellfire weapons. Another mortar was destroyed, and three missiles eliminated a group of terrorists engaged in a close quarters fight with Iraqi troops.	Reaper	Iraq	4 Hellfire missiles	Mortar, ISIS fighters
26 Sep 2016	Further south in the valley, near Sharqat, a Reaper destroyed another Daesh vehicle and then supported a coalition attack on an additional truck-bomb	Reaper	Iraq	?	Vehicle
26 Sep 2016	The following day, Tornados used an Enhanced Paveway II guided bomb against a truck-bomb near Qayyarah and a Brimstone missile to destroy a light truck in the same area.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb, 1 Brimstone missile	Truck bomb, truck
26 Sep 2016	Meanwhile, Typhoons operated to the east of Mosul, where a Paveway IV was used against a Daesh-held building.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS building
27 Sep 2016	Two flights of Paveway IV-armed Typhoons continued operations in northern Iraq on Tuesday 27 September. They conducted successful strikes on a mortar team near Qayyarah, plus a second mortar and an artillery piece to the north of Mosul.	Typhoon	Iraq	Paveway IV guided bombs	2 mortar team. Artillery piece
28 Sep 2016	A pair of Royal Air Force Typhoons operated to the north-east of Mosul, using three Paveway IV guided bombs against a cluster of Daesh-held buildings.	Typhoon	Iraq	3 Paveway IV guided bombs	ISIS buildings
28 Sep 2016	To the south of Mosul, in the Tigris valley, a Reaper patrolled the area around Qayyarah, where it used a Hellfire missile to destroy a vehicle-mounted mortar.	Reaper	Iraq	1 Hellfire missile	Mortar
29 Sep 2016	A Reaper conducted an armed reconnaissance mission over Tall Afar. It tracked down an armed truck which another coalition aircraft had encountered and although the vehicle was now concealed under trees, the Reaper scored a direct hit with a Hellfire.	Reaper	Iraq	1 Hellfire missile	Armed truck
30 Sep 2016	The next day, two Tornados employed a Paveway IV to destroy a rocket-launcher north of Qayyarah.	Tornado	Iraq	1 Paveway IV guided bomb	Rocker launcher
1 Oct 2016	A Reaper provided surveillance support to a coalition air strike north-west of Mosul. It then used one of its own Hellfires to attack a Daesh position.	Reaper	Iraq	1 Hellfire missile	ISIS position

2 Oct 2016	Reaper was again active north of Mosul, near Tall Kayf. A Hellfire destroyed a digger which was being used by the terrorists to construct a defensive position.	Reaper	Iraq	1 Hellfire missile	Digger
2 Oct 2016	To the east of Mosul, Tornados used an Enhanced Paveway II bomb and a Paveway IV to attack a headquarters building and a group of Daesh extremists.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb, 1 Paveway IV guided bomb	ISIS HQ, ISIS fighters
2 Oct 2016	The same day, to the south-east of Mosul, near Qaraqosh, Typhoons used Paveway IVs in a simultaneous attack on three Daesh-held buildings where a large group of fighters had assembled, including local commanders.	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
2 Oct 2016	A second Typhoon pair meanwhile operated over a large swathe of Iraqi territory. North of Ramadi, they destroyed a mortar team. They then headed north to the Bayji area where further Paveway attacks dealt with a terrorist stronghold and transport vehicle	Typhoon	Iraq	Paveway IV guided bombs	Mortar team, stronghold, vehicle
03 Oct 2016	Royal Air Force Typhoons provided close air support to Syrian Democratic Forces (SDF), attacking Daesh positions in eastern Syria on Monday 3 October. A group of terrorists were identified holding a building in a rural area. The SDF held back while the Typhoons conducted a successful strike, demolishing the target with Paveway IV guided bombs.	Typhoon	Syria	Paveway IV guided bombs	ISIS building
03 Oct 2016	Across the border in northern Iraq, Tornados provided support to Iraqi forces clearing Daesh from the Tigris valley south of Mosul. The aircraft used another Paveway IV to destroy a terrorist communications installation north of Al Hawd.	Tornado	Iraq	1 Paveway IV guided bomb	ISIS comms installation
04 Oct 2016	On Tuesday 4 October, a Reaper remotely piloted aircraft conducted armed reconnaissance north of Mosul. The Reaper's crew located a large fuel tanker dug-in as part of the defensive positions constructed by Daesh near Batnay. The tanker was burning oil to create a smoke screen in order to shield Daesh fighters against attacking ground forces. The Reaper scored a direct hit with a GBU-12 guided bomb. The Reaper then provided surveillance support to a coalition air strike against nearby positions.	Reaper	Iraq	1 GBU-12 bomb	Oil tanker
05 Oct 2016	Tornados were again in action south of Mosul on Wednesday 5 October, where they bombed an armed truck.	Tornado	Iraq	?	Armed truck
05 Oct 2016	In central Iraq, Typhoons attacked a small group of terrorists who had been spotted north of Taji. Working in close concert with a coalition surveillance aircraft, the Typhoons successfully killed the extremists with two Paveway IV attacks.	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters
06 Oct 2016	With Iraqi operations to isolate Mosul continuing, Royal Air Force aircraft continued to provide close air support on Thursday 6 October. To the north and west of the city, a Reaper successfully engaged with Hellfire missiles both a mortar team and a group of terrorists caught in the open.	Reaper	Iraq	Hellfire missiles	Mortar team, ISIS fighters
06 Oct 2016	The same day, a Tornado mission used an Enhanced Paveway II guided bomb against the entrance to a Daesh tunnel network.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb,	Tunnel network

06 Oct 2016	In eastern Syria, Typhoons used a Paveway IV guided bomb in a successful attack on a Daesh command post.	Typhoon	Syria	1 Paveway IV guided bomb	Command post
07 Oct 2016	On Friday 7 October, Typhoons patrolled over western Iraq, where they used Paveway IVs to destroy two trucks carrying Daesh extremists as they drove along a desert track.	Typhoon	Iraq	Paveway IV guided bombs	2 trucks, ISIS fighters
07 Oct 2016	In the Tigris valley south of Mosul, two Tornado flights supported Iraqi troops near Al Hawd and Sharqat. A Brimstone missile attack from one Tornado pair eliminated a mortar position, while the second pair used two Paveway IVs and a Brimstone in three attacks which accounted for a large, dispersed group of terrorists on the river bank.	Tornado	Iraq	Brimstone missiles, 2 Paveway IV guided bombs	Mortar position, ISIS fighters
09 Oct 2016	Tornados continued their work over the Tigris on Sunday 9 October, when they destroyed a mortar team and a nearby ammunition stockpile near Qayyarah, with a pair of Paveway IVs.	Tornado	Iraq	2 Paveway IV guided bombs	Mortar team, ammunition stockpile
09 Oct 2016	North of Mosul, a Reaper worked alongside two Typhoons. The Reaper provided surveillance support to a highly effective artillery bombardment that destroyed a Daesh training camp. It then tracked two terrorists as they moved to a rocket launching position, where they were seen working under the cover of some trees. A Hellfire missile killed the terrorists and the	Reaper	Iraq	1 Hellfire missile	ISIS fighters
09 Oct 2016	Typhoons then followed up with a Paveway IV attack to destroy the rockets.	Typhoon	Iraq	Paveway IV guided bombs	Rockets
10 Oct 2016	A pair of Typhoons from RAF Akrotiri used two Paveway IV guided bombs on Monday 10 October to destroy the entrances to tunnels beneath an embankment near Qaraqosh.	Typhoon	Iraq	2 Paveway IV guided bombs	Tunnels
10 Oct 2016	They then flew to the north-west of Mosul where they used another Paveway to silence a mortar team on the northern bank of the Tigris, which had been firing on the advancing Kurdish forces.	Typhoon	Iraq	1 Paveway IV guided bomb	Mortar
10 Oct 2016	To the north-east of the city, two Tornados used an Enhanced Paveway II to destroy a terrorist anti-tank missile position. They then followed up with a Paveway IV to ensure the destruction of an associated ammunition supply point.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb, 1 Paveway IV guided bomb	Anti-tank missile position, ammunition
11 Oct 2016	On Tuesday 11 October, Tornados conducted another successful attack north-west of Mosul on a tunnel, which had been identified as a weapons cache.	Tornado	Iraq	?	Weapons cache
12 Oct 2016	Wednesday 12 October saw an intensive series of strikes in northern Iraq. North of Mosul, near Tall Kayf, a Reaper scored a direct hit with a Hellfire missile on an artillery piece hidden beneath a tarpaulin.	Reaper	Iraq	1 Hellfire missile	Artillery piece
12 Oct 2016	A Tornado pair used a Brimstone missile to destroy a rocket-armed truck in the Qayyarah region,	Tornado	Iraq	Brimstone missile	Armed truck
12 Oct 2016	Typhoons bombed a mortar team north-east of Mosul	Typhoon	Iraq	?	Mortar team
12 Oct 2016	The Tornado and Typhoon flights then combined for a joint attack near Qaraqosh on a set of	Tornado / Typhoon	Iraq	7 Enhanced Paveway II	Explosives workshop

	workshops manufacturing explosives. Seven Enhanced Paveway II and Paveway IV bombs, plus a Brimstone, were used to destroy the facility and a number of Daesh vehicles at the site.			1,000lb bombs, Paveway IV guided bombs, Brimstone missile	
12 Oct 2016	A second combined Tornado and Typhoon flight meanwhile headed to the south-west of Kirkuk, where they destroyed truck-bomb facility with Enhanced Paveway II and Paveway IV weapons	Tornado / Typhoon	Iraq	Enhanced Paveway II 1,000lb bombs, Paveway IV guided bombs	Truck bomb facility
14 Oct 2016	North-west of Mosul, on Friday 14 October, Paveway IV-armed Typhoons successfully bombed five rocket launchers.	Typhoon	Iraq	Paveway IV guided bombs	5 rocket launchers
14 Oct 2016	A Reaper which had located a terrorist mortar position and ammunition stockpile. The Reaper attacked the mortar with a GBU-12 guided bomb,	Reaper	Iraq	1 GBU-12 bomb	Mortar
14 Oct 2016	The Typhoons followed up with a strike on the munitions stockpile.	Typhoon	Iraq	?	Ammunition stockpile
16 Oct 2016	On Sunday 16 October, a Reaper again patrolled to the north-west of Mosul, where it engaged an artillery piece with a Hellfire, then provided targeting support to three attacks by coalition fast jets on terrorist mortar positions.	Reaper	Iraq	1 Hellfire missile	Artillery piece
16 Oct 2016	One flight of Typhoons operated to the west of Mosul, using Paveway IVs to destroy two Daesh-held buildings,	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
16 Oct 2016	A second flight operated to the east, attacking four terrorist positions.	Typhoon	Iraq	?	4 ISIS positions
17 Oct 2016	On Monday 17 October, a Reaper kept close watch on Daesh positions near Qaraqosh to the south-east of Mosul. Our aircraft provided surveillance support to a coalition fast jet attack on a terrorist mortar team. The Reaper then conducted attacks using its own weapons on four targets. These attacks included a GBU-12 guided bomb, which accounted for a mortar. Hellfire missiles also destroyed an armed truck and two heavy weapons teams, including one armed with a recoilless anti-tank gun which had opened fire on the advancing Iraqis.	Reaper	Iraq	1 GBU-12 bomb, Hellfire missiles	Mortar, armed truck 2 heavy weapon teams
17 Oct 2016	To the south of the city, a Typhoon flight was able to use a Paveway IV guided bomb to dispose safely of a large truck-bomb before it could be used.	Typhoon	Iraq	1 Paveway IV guided bomb	Truck bomb
18 Oct 2016	A Reaper was again in action south-east of Mosul on Tuesday 18 October. A Hellfire missile killed a group of terrorists engaged in combat with Iraqi troops. A second Hellfire also accounted for another group of extremists as they moved between positions, and a third destroyed an armed truck.	Reaper	Iraq	3 Hellfire missiles	ISIS fighters, armed truck
18 Oct 2016	North-east of the city, a pair of Typhoons used Paveway IVs to destroy a number of improvised explosive devices laid in a defensive belt, as well as a weapons stockpile and a Daesh strong-point.	Typhoon	Iraq	Paveway IV guided bombs	IEDs, weapons stockpile, strongpoint
19 Oct 2016	A Reaper scouted ahead of Iraqi troops advancing to the south-east of the city. A terrorist rocket-propelled grenade team were identified and	Reaper	Iraq	4 Hellfire missiles	ISIS fighters, truck bomb

	eliminated using a Hellfire missile. The Reaper then provided surveillance support to two successful attacks by coalition fast jets on larger groups of terrorists, before conducting a further Hellfire attack itself. The aircraft's surveillance sensors then spotted a large armoured truck-bomb emerging from cover and being driven at speed towards an Iraqi unit. An immediate attack with a Hellfire missile struck the vehicle, which crashed out of control, and the would-be suicide bomber abandoned the truck and fled. Another group of terrorists were later identified and attacked with a fourth Hellfire.				
19 Oct 2016	Meanwhile, to the north of Mosul, Paveway IV-armed Typhoons destroyed two Daesh-held buildings.	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
20 Oct 2016	Reaper support to the south-east of Mosul continued. Hellfire missiles destroyed a truck-mounted heavy machine-gun and another vehicle which had been spotted being loaded with a mortar and ammunition	Reaper	Iraq	Hellfire missiles	Heavy machine gun, vehicle
20 Oct 2016	Two more Daesh mortar teams were destroyed with a further Hellfire and a GBU-12 guided bomb.	Reaper	Iraq	Hellfire missile, GBU-12 bomb	2 mortar teams
20 Oct 2016	In the Tigris valley south of Mosul, a Tornado flight intervened in a combat between Iraqi troops and a dispersed group of terrorists. Two Paveway IVs accounted for the extremists.	Tornado	Iraq	2 Paveway IV guided bombs	ISIS fighters
20 Oct 2016	Meanwhile, two flights of Typhoons patrolled the northern arc around Mosul, where they engaged seven terrorist targets with Paveway IVs. These included: a rocket-launcher north-west of the city, a sniper team and a Daesh-held building to the north, and to the north-east a pair of heavy machine-guns, a strongpoint, and a command post which was controlling truck-bomb attacks.	Typhoon	Iraq	Paveway IV guided bombs	Rocket launcher, sniper team, ISIS building, heavy machine gun, strongpoint, command post
21 Oct 2016	A Reaper remotely piloted aircraft patrolled north of Mosul, using a Hellfire missile to destroy a Daesh mortar that had opened fire on Kurdish troops.	Reaper	Iraq	Hellfire missile	Mortar
21 Oct 2016	The Reaper then moved south-east to support operations around Qaraqosh, where a coalition aircraft had spotted a fortified tunnel entrance. The Reaper's crew were able to destroy this with a direct hit from a GBU-12 guided bomb.	Reaper	Iraq	1 GBU-12 bomb	Tunnel
21 Oct 2016	Meanwhile, Typhoons from RAF Akrotiri, operated to the north and east of the city. Near Khursabad, they worked in close cooperation with a coalition surveillance aircraft to destroy a second tunnel entrance, in which terrorists were known to be hiding.	Typhoon	Iraq	?	Tunnel
21 Oct 2016	To the north of Mosul, they attacked two mortar teams and a heavy machine-gun, and, near Bartallah, they destroyed an armoured truck-bomb positioned in the path of the advancing Iraqi troops.	Typhoon	Iraq	?	2 mortar teams, heavy machine gun, truck bomb
21 Oct 2016	Further south, in the Tigris valley, a pair of Tornados used a Brimstone missile to destroy an armed truck. They then used a second Brimstone to engage a group of terrorists operating amongst houses south-east of Mosul. No collateral damage was caused.	Tornado	Iraq	2 Brimstone missile	Armed truck, ISIS fighters

22 Oct 2016	A Reaper flew overwatch for the Iraqi troops in and around Qaraqosh as they cleared remaining Daesh positions. The Reaper's crew used a Hellfire missile against several terrorists engaged in a firefight with the Iraqis. A second Hellfire then destroyed an anti-aircraft gun positioned in the street. A terrorist mortar was reported firing on friendly forces, and the Reaper successfully hunted this down and eliminated the threat with a GBU-12 guided bomb. A van was spotted supplying terrorist positions and was destroyed with a Hellfire, and a fourth missile accounted for another group of extremists caught in the open.	Reaper	Iraq	4 Hellfire missiles, 1 GBU-12 bomb	ISIS fighters, anti-aircraft gun, mortar, vehicle
23 Oct 2016	Reaper operations continued, where one of our aircraft conducted a Hellfire attack on a truck loaded with terrorists. A second Hellfire killed other terrorists as they attempted to hide from the aircraft beneath a staircase in a ruined building. The Reaper employed a GBU-12 bomb to destroy a heavy machine-gun that was firing on Iraqi troops, then used a third Hellfire to destroy a well dug-in mortar near Bartallah.	Reaper	Iraq	3 Hellfire missiles, 1 GBU-12 bomb	Truck, ISIS fighters, heavy machine gun, mortar
23 Oct 2016	North-east of Mosul, a pair of Typhoons used two Paveway IVs to destroy a pair of machine-gun positions, then carried out a simultaneous attack against a total of five Daesh positions – two sniper teams, two mortars and another machine-gun – spread across a couple of miles of the front line. All five targets were struck accurately by Paveway IVs. An eighth Paveway was then used to destroy another mortar team.	Typhoon	Iraq	8 Paveway IV guided bombs	2 machine gun positions, 5 ISIS positions, mortar team
23 Oct 2016	A second Typhoon flight was also active in the area, working closely with coalition surveillance aircraft, and dropped Paveway IVs against two Daesh strongpoints.	Typhoon	Iraq	Paveway IV guided bombs	2 strongpoints
23 Oct 2016	Tornados also patrolled north-east of Mosul. The aircraft delivered attacks with an Enhanced Paveway II and two Paveway IVs that destroyed a machine-gun team, a terrorist defensive position and an armed truck.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb, 2 Paveway IV guided bombs	Machine gun team, ISIS position, armed truck
24 Oct 2016	A Tornado armed reconnaissance mission north-east of Mosul was diverted to deal with a terrorist team which a coalition aircraft had spotted planting booby-traps and improvised explosive devices. The team were struck by a 1000 lb Enhanced Paveway II bomb.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb	IED team
24 Oct 2016	Typhoons flew in the same area, using a Paveway IV against terrorists engaged in close combat with friendly forces, then, through heavy cloud, delivering a simultaneous strike against four sniper positions. The Iraqi forces reported direct hits on all four targets.	Typhoon	Iraq	Paveway IV guided bombs	ISIS fighters, 4 sniper positions
24 Oct 2016	A Reaper flew further support as the Iraqis pushed on from Qaraqosh and Bartallah, and in the course of its mission the aircraft delivered five attacks. Two Hellfire missiles accounted for a terrorist group and a dug-in mortar. The Reaper then observed a number of Daesh fighters travelling on motorcycles, and followed them until they joined forces with a number of other extremists. The group were then struck with a Hellfire as they gathered outside a building. On the outskirts of Mosul, a total of six rocket-launchers were spotted by the Reaper, ready for firing. Four were destroyed by a GBU-12 bomb,	Reaper	Iraq	1 GBU-12 bomb, 6 Hellfire missiles	Mortar position, 2 groups ISIS fighters. 6 rocket launchers

	then the other two by a Hellfire.				
28 Oct 2016	A pair of Royal Air Force Tornados and a Reaper remotely piloted aircraft targeted Daesh terrorists in the area on Friday 28 October. The Reaper identified an artillery piece which several extremists were loading onto a large flat-bed lorry. The Reaper provided targeting support which allowed the Paveway-armed Tornados to destroy both the gun and the vehicle.	Tornado	Iraq	Paveway IV guided bombs	Artillery piece, vehicle
28 Oct 2016	The Reaper also supported a follow-up attack by coalition aircraft which destroyed an ammunition truck nearby. It then delivered its own strike with a Hellfire missile, which safely detonated a large truck-bomb hidden in trees.	Reaper	Iraq	Hellfire missile	Truck bomb
29 Oct 2016	On Saturday 29 October, a Reaper patrolled south of Mosul, along the Tigris valley. West of Guwayr, the Reaper spotted a group of terrorists with rocket-propelled grenades firing at Iraqi troops, and was able to deliver a successful attack with a Hellfire. A second Hellfire accounted for a Daesh heavy weapons team, and our aircraft was also able to provide targeting for a coalition aircraft which killed a number of terrorists manoeuvring through woodland.	Reaper	Iraq	2 Hellfire missiles	ISIS fighters, heavy weapon team
30 Oct 2016	A Reaper was again in action east of Mosul on Sunday 30 October. Its crew successfully hunted down a mortar which had been firing on Iraqi positions. The mortar was subsequently destroyed by coalition fast jets. The Reaper used Hellfire missiles against a pair of terrorists moving at high speed on a motorcycle and a team armed with a recoilless anti-tank gun. It then facilitated three further coalition attacks against groups of terrorists, including another recoilless anti-tank weapon crew.	Reaper	Iraq	Hellfire missiles	ISIS pair on motorcycle, anti-tank gun
31 Oct 2016	On Monday 31 October, Tornados joined coalition aircraft from a number of other countries in a major coordinated attack on a former Iraqi military depot near Haditha in western Iraq. Intelligence had established that Daesh had set up workshops manufacturing weapons in a number of the bunkers at the site. The Tornados used Storm Shadow missiles, chosen because of their enhanced penetrative capabilities, to target several of these bunkers. Initial reports indicate that this largescale coalition attack was a success	Tornado	Iraq	Storm Shadow missiles	ISIS bunkers
31 Oct 2016	Operations around Mosul were not neglected however, with a Reaper supporting Iraqi troops as they cleared the village of Bazwaya, just to the east of the city. A Hellfire missile destroyed an armed truck, and the Reaper was also able to assist coalition air attacks against a mortar team and another Daesh position.	Reaper	Iraq	Hellfire missile	Armed truck
01 Nov 2016	Tornados patrolled north of Mosul on Tuesday 1 November, where they supported advancing Kurdish forces. A Paveway IV guided bomb destroyed a Daesh heavy machine-gun position when it opened fire on the Peshmerga, while an Enhanced Paveway II demolished a building in which a light machine-gun was sited.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bomb, Paveway IV guided bombs	Heavy machine gun position, ISIS building
01 Nov 2016	to the south-east of the city, a Reaper provided further close air support to Iraqi troops. It conducted Hellfire attacks on a mortar team who were spotted firing, and two groups of terrorists,	Reaper	Iraq	Hellfire missiles	Mortar team, 2 groups ISIS fighters

	including individuals with rocket-propelled grenades. The Reaper also directed a successful coalition air attack onto a number of terrorists defending a trench network.				
02 Nov 2016	A combination of Typhoon and Tornado aircraft patrolled to the east of the city on Wednesday 2 November. Some distance to the south-east, they used a Paveway IV guided bomb to destroy a building from which a terrorist mortar team was operating. They then flew north to eliminate a sniper position with a second Paveway.	Tornado / Typhoon	Iraq	Paveway IV guided bombs	Mortar team, sniper position
03 Nov 2016	The following day, Tornados struck two further targets north-east of Mosul. A Paveway IV destroyed a building from which Daesh extremists were firing on advancing ground forces, while a Brimstone missile accounted for a terrorist vehicle.	Tornado	Iraq	1 Paveway IV guided bomb, 1 Brimstone missile	ISIS building, vehicle
03 Nov 2016	South-east of the city, a Reaper flew overwatch for Iraqi troops as they pressed forwards. The Reaper's crew used all four of its Hellfire missiles against a mortar team seen firing from amidst trees, and three groups of terrorists as they fired on the Iraqis with rocket-propelled grenades, as well as attempting to set fire to piles of tyres to create a smokescreen. The Reaper was also able to provide surveillance support to two air strikes by coalition aircraft which destroyed a fortified position and an armed truck.	Reaper	Iraq	4 Hellfire missiles	Mortar team. 3 groups ISIS fighters
04 Nov 2016	On Friday 4 November, Reaper operations continued south-east of Mosul, with our aircraft directing a successful coalition air attack onto its target, a weapons dump, and using one of its own Hellfires to engage a group of terrorists on foot.	Reaper	Iraq	Hellfire missile	ISIS fighters
04 Nov 2016	Two Tornados struck close air support targets inside eastern Mosul itself, using Brimstone missiles to destroy an armed vehicle and a large truck-bomb. A Paveway also hit a group of terrorists which another coalition aircraft had been carefully tracking as they manoeuvred towards Iraqi troops.	Tornado	Iraq	Brimstone missiles, 1 Paveway IV guided bomb	Armed vehicle, truck bomb, ISIS fighters
04 Nov 2016	A second Tornado flight supported Iraqi operations elsewhere in the country, and north-east of Mosul used Paveway IV and Enhanced Paveway II bombs to destroy a cave occupied by Daesh in the hills above Bayji, as well as a nearby stock of equipment.	Tornado	Iraq	Enhanced Paveway II 1,000lb bombs, Paveway IV guided bombs	Cave, equipment
05 Nov 2016	Three Hellfire attacks were launched by a Reaper on Saturday 5 November near Mosul, against a truck-bomb, a mortar and a rocket-propelled grenade team. The Reaper also assisted in a coalition strike against a second mortar	Reaper	Iraq	Hellfire missiles	Truck bomb, mortar, RPG teams
06 Nov 2016	On Sunday 6 November, Paveway IV-armed Typhoons bombed a terrorist group in the Tigris valley south of Mosul,	Typhoon	Iraq	?	ISIS fighters
06 Nov 2016	Tornados used a Brimstone missile to destroy an armoured personnel carrier inside the city.	Tornado	Iraq	Brimstone missile	Armoured personnel carrier
06 Nov 2016	On the outskirts, a Reaper tracked a terrorist driving a truck-bomb towards Iraqi troops, but the truck exploded prematurely as it drove over rough ground, negating any need for the Reaper to fire at it. The Reaper instead used its Hellfires against a truck being loaded with spare weapons, a recoilless anti-tank gun, a rocket-propelled	Reaper	Iraq	Hellfire missiles	Weapons truck, anti-tank gun, RPG team, armed truck

	grenade team and an armed truck.				
07 Nov 2016	On Monday 7 November, a Typhoon mission armed with Paveway IV guided bombs destroyed a stockpile of rocket and mortar equipment to the north of Bayji	Typhoon	Iraq	Paveway IV guided bombs	Rocket and mortar equipment
07 Nov 2016	A Reaper conducting armed reconnaissance near Raqqah struck a Daesh vehicle with a Hellfire missile.	Reaper	Syria	1 Hellfire missile	ISIS vehicle
07 Nov 2016	Near Mosul, a Reaper provided close air support to Iraqi forces. Daesh fighters were observed firing a recoilless anti-tank gun at the Iraqi troops, then loading the weapon into a vehicle. As the vehicle pulled away, it was destroyed by a Hellfire. The Reaper's crew then used a further three Hellfires, which have a very low risk of collateral damage, in successful attacks on groups of extremists as they engaged in street fighting with the Iraqi troops.	Reaper	Iraq	4 Hellfire missiles	Anti-tank gun, ISIS fighters
08 Nov 2016	Reaper operations in the area continued on Tuesday 8 November, with our aircraft conducting three further Hellfire attacks on terrorist fighters, as well as providing targeting support to a coalition air strike which destroyed a mortar team.	Reaper	Iraq	Hellfire missiles	ISIS fighters
08 Nov 2016	To the north-east of Mosul, a pair of Typhoon FGR4s used Paveway IVs to destroy seven Daesh positions.	Typhoon	Iraq	Paveway IV guided bombs	7 ISIS positions
09 Nov 2016	On Wednesday 9 November, a Reaper spotted an armoured vehicle firing on Iraqi troops on the outskirts of Mosul, and destroyed it with a Hellfire.	Reaper	Iraq	1 Hellfire missile	Armoured vehicle
10 Nov 2016	A Reaper provided overwatch to Iraqi troops engaged in street fighting at Abasi in northern Iraq. Its crew used Hellfire missiles against two groups of terrorists, including a light machine-gun team.	Reaper	Iraq	Hellfire missiles	2 groups ISIS fighters
10 Nov 2016	In Mosul itself, a mortar was spotted in an area of heavily wooded parkland. It was destroyed by a Paveway IV guided bomb from a Typhoon flight.	Typhoon	Iraq	1 Paveway IV guided bomb	Mortar
10 Nov 2016	North of the city, Tornados used a Brimstone missile to kill several terrorists as they manoeuvred along a street.	Tornado	Iraq	1 Brimstone missile	ISIS fighters
11 Nov 2016	A pair of Typhoons patrolled over Syria, supporting the Syrian Democratic Forces north of Raqqah. Another coalition aircraft was able to identify a Daesh armoured vehicle well concealed under trees, and was able to direct the Typhoon onto the target, which was duly destroyed with a Paveway IV.	Typhoon	Syria	1 Paveway IV guided bomb	Armoured vehicle
11 Nov 2016	South of Mosul, Tornados used another Paveway IV to demolish a terrorist strongpoint on the banks of the Tigris.	Tornado	Iraq	1 Paveway IV guided bomb	Strongpoint
12 Nov 2016	A Reaper maintained surveillance around Mosul. As well as supporting a coalition air strike that eliminated a recoilless anti-tank gun team, our aircraft used three Hellfire missiles against a mortar and two groups of terrorists engaged in combat with Iraqi troops.	Reaper	Iraq	3 Hellfire missiles	Mortar, 2 groups ISIS fighters
13 Nov 2016	Typhoons again operated north of Raqqah and were able to destroy an anti-aircraft gun near Thulth Khunayz	Typhoon	Syria	?	Anti-aircraft gun

13 Nov 2016	Some miles to the north-east of Mosul, Tornados used a Paveway IV to collapse a tunnel system,	Tornado	Iraq	1 Paveway IV guided bomb	Tunnel
13 Nov 2016	Closer to the city, a Hellfire from a Reaper destroyed a large weapon mounted on the rear of a lorry. The Reaper then used a GBU-12 laser guided bomb to attack successfully both a buried weapons cache and a nearby terrorist vehicle.	Reaper	Iraq	1 Hellfire missile, 1 GBU-12 bomb	Large weapon, weapons cache, vehicle
14 Nov 2016	Royal Air Force Typhoons provided close air support to Iraqi forces on Monday 14 November as they fought to liberate the site of the ancient Assyrian city of Nimrud. A group of terrorists were spotted repositioning in open country some distance north of Nimrud, and successfully struck with a Paveway IV guided bomb.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS fighters
14 Nov 2016	To the north of Mosul, a Reaper provided similar close support to Kurdish troops, in particular hunting for Daesh mortars. The Reaper's crew successfully located two such weapons. One was subsequently destroyed by coalition jets guided onto the target by the Reaper, the second was struck using one of the Reaper's own Hellfire missiles.	Reaper	Iraq	1 Hellfire missile	Mortar
15 Nov 2016	A Reaper maintained patrols over Mosul on Tuesday 15 November and a further terrorist mortar team was silenced by a Hellfire missile.	Reaper	Iraq	1 Hellfire missile	Mortar
15 Nov 2016	Tornados and Typhoons meanwhile maintained pressure on Daesh elsewhere in Iraq. The Tornados used a Paveway IV to bomb a terrorist bunker south of Haditha Lake,	Tornado	Iraq	1 Paveway IV guided bomb	Bunker
15 Nov 2016	Typhoons destroyed a Daesh-held building to the west of Kirkuk.	Typhoon	Iraq	?	ISIS building
16 Nov 2016	The Typhoons operated in the same area on Wednesday 16 November, using Paveway IVs against two more terrorist occupied buildings some 20 miles west of Kirkuk.	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
16 Nov 2016	A Reaper also continued to keep watch over eastern Mosul, where it successfully hunted down and killed two Daesh mortar teams, and supported a coalition fast jet attack that accounted for a third, vehicle-borne, mortar.	Reaper	Iraq	?	2 mortar teams
17 Nov 2016	Two Typhoons, armed with Paveway IV guided bombs, were tasked on Thursday 17 November to deal with a group of buildings which Daesh had heavily booby-trapped with large improvised explosive devices in the path of the SDF's offensive north of Raqqa. Direct hits safely demolished all four target buildings, setting off large secondary explosions.	Typhoon	Syria	Paveway IV guided bombs	4 bobby-trapped buildings
17 Nov 2016	Over Iraq the same day, two pairs of Tornados provided close air support over northern and western parts of the country. North-east of Tall Afar, one mission used a Paveway IV against a terrorist mortar position,	Tornado	Iraq	1 Paveway IV guided bomb	Mortar position
17 Nov 2016	In the west, the other flight used an Enhanced Paveway II to bomb a bunker located in the countryside north-east of Rawah.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb bombs	Bunker
18 Nov 2016	On Friday 18 November, a Reaper supported Iraqi	Reaper	Iraq	2 Hellfire	ISIS fighters,

	troops as they fought to liberate the village of Umarkan, south of Mosul. The Reaper's crew observed a group of Daesh fighters retreating into a building. Having checked that there were no indications of any civilians in the area, the Reaper was able to direct a successful coalition air strike onto the target. Our aircraft then used two of its own Hellfire missiles to kill a group of terrorists as they manoeuvred in the open, and to destroy a vehicle carrying a mortar.			missiles	vehicle
18 Nov 2016	In Mosul itself, a Typhoon flight used four Paveway IVs to destroy a weapons stockpile in a large isolated building on the western bank of the Tigris.	Typhoon	Iraq	4 Paveway IV guided bombs	Weapons stockpile
18 Nov 2016	A second pair of Typhoons meanwhile continued to support the SDF north of Raqqa. Working closely with a coalition surveillance aircraft, the Typhoons were able to destroy a terrorist strongpoint with a Paveway IV despite the SDF being very near the target. The Typhoons then used another Paveway IV against an artillery piece concealed in trees some ten miles north of Raqqa.	Typhoon	Syria	2 Paveway IV guided bombs	Strongpoint, artillery piece
20 Nov 2016	Tornados saw further action over Mosul on Sunday 20 November. On the southern edge of the city, to the east of Mosul airfield, an artillery piece had been spotted hidden amongst woodland. A Paveway IV was nevertheless successfully directed onto the target, and secondary explosions suggest ammunition was destroyed along with the gun itself.	Tornado	Iraq	1 Paveway IV guided bomb	Artillery piece
21 Nov 2016	A Royal Air Force Reaper remotely piloted aircraft provided close air support to an Iraqi unit as it pressed towards Mosul from the south-east of the city on Monday 21 November. The Reaper's crew tracked a group of terrorists who had been observed firing at the Iraqi troops and, when it was safe to do so, successfully engaged them with a Hellfire missile. Our aircraft then gave targeting and surveillance assistance to two coalition air strikes on larger groups of extremists, before carrying out two further attacks of its own with Hellfires against yet more Daesh militants.	Reaper	Iraq	Hellfire missiles	3 groups ISIS fighters
22 Nov 2016	On Tuesday 22 November, a combined formation of two Typhoons and a Tornado conducted armed reconnaissance over the desert of western Iraq. A number of heavily-armed terrorists were reported to be encamped some 35 miles from Haditha. Their location was confirmed by the RAF flight, which then delivered a very effective attack with Paveway IV guided bombs.	Tornado / Typhoon	Iraq	Paveway IV guided bombs	ISIS encampment
23 Nov 2016	The following day, a Reaper was again in action south-east of Mosul. Most of its mission was devoted to hunting terrorist heavy weapons teams and conducting very patient surveillance to ensure there were no civilians at risk in the area. The Reaper directly supported one coalition air attack on an armed vehicle, and used three of its own Hellfires to destroy two Daesh mortars and a recoilless anti-tank gun which had all been observed when they attempted to engage the advancing Iraqi units.	Reaper	Iraq	3 Hellfire missiles	2 mortars, anti-tank gun
23 Nov 2016	Meanwhile, south-west of Mosul, a Typhoon flight used a Paveway IV against a terrorist heavy machine-gun position.	Typhoon	Iraq	1 Paveway IV guided bomb	Heavy machine gun position

24 Nov 2016	RAF aircraft have also continued to provide reconnaissance and strike support to the Syrian Democratic Forces as they push towards Raqqa. As part of this, a pair of Paveway-armed Typhoons destroyed a Daesh strongpoint located some 15 miles north of the city on Thursday 24 November.	Typhoon	Syria	Paveway IV guided bombs	Strongpoint
25 Nov 2016	Tornados dealt with a particularly challenging target in eastern Mosul on Friday 25 November – a Daesh mortar hidden in trees next to a busy road. The Tornados used a Brimstone missile, which has a small warhead and a very precise targeting system, to strike the target accurately whilst limiting as far as possible the risk to the passing traffic. The Tornados then hit a second target, using a Paveway IV to destroy a workshop in south-eastern Mosul which was producing truck-bombs.	Tornado	Iraq	1 Brimstone missile, 1 Paveway IV guided bomb	Mortar, truck bomb workshop
27 Nov 2016	On Sunday 27 November one Tornado mission used Enhanced Paveway II and Paveway IV bombs to neutralise a large fortified building in northern Mosul,	Tornado	Iraq	Enhanced Paveway II 1,000lb bombs, Paveway IV guided bombs	Fortified ISIS building
27 Nov 2016	A second Tornado flight conducted Brimstone attacks which destroyed two engineering vehicles, used by Daesh to construct defensive positions.	Tornado	Iraq	Brimstone missiles	2 engineering vehicles
27 Nov 2016	In fields on the southern outskirts of the city, Typhoons caught a large group of terrorists setting up a mortar which they had just unloaded from a truck. A direct hit from a Paveway IV destroyed the mortar, killed the terrorists and damaged the truck. The Typhoons then destroyed a second mortar nearby.	Typhoon	Iraq	Paveway IV guided bombs	2 mortars, ISIS fighters
28 Nov 2016	With Iraqi troops methodically clearing Daesh extremists from key locations around Mosul, a Royal Air Force Reaper worked with other coalition aircraft to provide close air support on Monday 28 November. The Reaper used its surveillance sensors to identify a number of terrorists and then provided targeting guidance which allowed two successful coalition attacks to be delivered. A pair of terrorists were subsequently tracked as they moved at high speed on a motorcycle to a new position, and were killed by a direct hit from one of the Reaper's Hellfire missiles. The Reaper then spotted in turn three Daesh mortars as they opened fire: one was destroyed by a coalition aircraft, one was silenced by artillery fire, and the third was struck by the Reaper itself, using a GBU-12 guided bomb.	Reaper	Iraq	1 Hellfire missile, 1 GBU-12 bomb	Pair on motorcycle, mortar
28 Nov 2016	To the south, near Bayji, Typhoon FGR4s meanwhile used a Paveway IV to destroy a Daesh-held building.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS building
28 Nov 2016	The Typhoons then headed west to Anbar province, where they employed a further Paveway to collapse the entrance to a terrorist tunnel network beneath a hillside south of Rawah.	Typhoon	Iraq	1 Paveway IV guided bomb	Tunnel
29 Nov 2016	Reaper operations around Mosul continued on Tuesday 29 November. A group of terrorists engaged in a firefight with Iraqi forces were struck with a Hellfire. Again, the Reaper proved a deadly hunter of Daesh mortar teams; a Hellfire destroyed one, and the aircraft's reconnaissance work allowed two more to be targeted by artillery	Reaper	Iraq	2 Hellfire missiles	ISIS fighters, mortar

	fire and coalition aircraft.				
29 Nov 2016	Some ten miles west of Mosul, Tornado GR4s scored a direct hit with a Brimstone missile on one of the few tanks operated by Daesh,	Tornado	Iraq	Brimstone missile	Tank
29 Nov 2016	To the south-west, near Qayyarah, Typhoons bombed a weapons stockpile.	Typhoon	Iraq	?	Weapons stockpile
03 Dec 2016	Very bad weather, including violent thunderstorms, seriously hampered air operations for several days. However, conditions improved sufficiently for a Reaper to resume operations over Mosul on Saturday 3 December. It conducted one attack, using a Hellfire, against a mortar, and was able to alert other coalition forces to the location of a large number of civilians potentially at risk in the area.	Reaper	Iraq	Hellfire missile	Mortar
04 Dec 2016	Another Reaper continued to provide close air support to the Iraqi forces as they engaged in intensive street fighting around Mosul on Sunday 4 December; the Reaper's crew twice exploited the accuracy and small warhead of their Hellfire missiles to strike Daesh terrorists engaged in close combat with Iraqi troops, and also gave surveillance support to four successful attacks by coalition aircraft on heavily defended buildings, including one where a group of suicide bombers had mustered.	Reaper	Iraq	2 Hellfire missiles	ISIS fighters
04 Dec 2016	Two flights of Tornados prosecuted Daesh targets in Syria: one pair joined other coalition aircraft in an attack on a large weapons factory which intelligence had established was being operated by Daesh some 15 miles west of Raqqa. The Tornados dropped three Enhanced Paveway II bombs which scored direct hits on their targets	Tornado	Syria	3 Enhanced Paveway II 1,000lb bombs	ISIS weapons factory
04 Dec 2016	In eastern Syria, the second Tornado flight used a pair of Paveway IV bombs to destroy a terrorist headquarters, plus an associated vehicle, located some 25 miles north-east of At Tibni.	Tornado	Syria	2 Paveway IV guided bombs	ISIS HQ, vehicle
05 Dec 2016	With Iraqi forces continuing to clear Daesh positions in eastern Mosul, a Royal Air Force Reaper flew overwatch for the operation on Monday 5 December. It performed an important role in tracking the movements of civilian refugees through the area, allowing coalition attacks to be halted or delayed as necessary. The Reaper also identified a group of Daesh fighters who were subsequently struck by Coalition fast jets. The Reaper's crew then spotted a heavy machine-gun firing on Iraqi troops, and destroyed it with a Hellfire missile.	Reaper	Iraq	1 Hellfire missile	Heavy machine gun
07 Dec 2016	On Wednesday 7 December, a pair of Typhoons, armed with Paveway IV guided bombs, and supported by a Voyager air refuelling tanker, attacked a Daesh bunker dug into the hills some 25 miles north-west of Haditha. After the attack, smoke rose from the tunnel entrances some distance away, proving that the strike was successful.	Typhoon	Iraq	Paveway IV guided bombs	Bunker
07 Dec 2016	A second pair of Typhoons operated north of Mosul, where they used a Paveway IV to destroy a Daesh-held building.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS building
07 Dec 2016	Meanwhile, a Reaper continued close air support over eastern Mosul. An armoured truck was	Reaper	Iraq	Hellfire missiles	3 groups ISIS fighters

	tracked as Daesh fighters attempted to hide it in a vehicle shelter, allowing it to be destroyed by coalition jets The Reaper then conducted three attacks using its own Hellfires against groups of extremists engaged in close combat with the advancing Iraqi troops.				
08 Dec 2016	Tornados and a Reaper patrolled over Mosul on Thursday 8 December. The Tornados were able to use the small, highly accurate Brimstone missile to dispose safely of an armoured personnel carrier positioned close to a hospital in the south of the city.	Tornado	Iraq	1 Brimstone missile	Armoured personnel carrier
08 Dec 2016	The Reaper hunted targets in the city centre, using three Hellfire missiles to pick off groups of extremists caught moving in the open.	Reaper	Iraq	3 Hellfire missiles	ISIS fighters
09 Dec 2016	Another Reaper enjoyed similar success the following day, Friday 9 December, when it also operated over central Mosul. It conducted three Hellfire attacks against Daesh fighters, including some armed with rocket-propelled grenades, and a mortar team that was spotted as it opened fire.	Reaper	Iraq	Hellfire missiles	ISIS fighters, mortar team
09 Dec 2016	In the east of the city, Typhoons assisted Iraqi forces as they fought a Daesh group holding a building at the end of a street. Particular care was taken in planning the air attack, as the Iraqi troops were very close to the target, but our aircrew were able to score a direct hit with a Paveway IV, which destroyed the building and removed the threat to the ground forces.	Typhoon	Iraq	1 Paveway IV guided bomb	ISIS building
12 Dec 2016	Intelligence analysis identified a set of buildings some miles north-east of Bayji, where Daesh were storing weapons and manufacturing explosives. A pair of Royal Air Force Typhoon FGR4s, supported by a Voyager tanker, were tasked to attack the site on Monday 12 December. Our aircraft used three Paveway IV guided bombs against different buildings within the compound, and successfully destroyed each of these targets.	Typhoon	Iraq	3 Paveway IV guided bombs	Weapons factory and store
14 Dec 2016	Operations to liberate Mosul continue, with Iraqi troops carefully clearing terrorists from areas in the east of the city. On Wednesday 14 December, a unit encountered significant resistance from a group of Daesh fortified in a building. RAF Tornado GR4s were overhead, but unable to see the target due to thick cloud cover. Nevertheless, very careful coordination with the ground forces, who were very close to the terrorist strongpoint, allowed the Tornados to deliver a precision strike through the cloud cover with a Paveway IV which the Iraqi troops reported scored a direct hit on the building and eliminated the threat they faced.	Tornado	Iraq	1 Paveway IV guided bomb	ISIS building
15 Dec 2016	On Thursday 15 December, Iraqi troops engaged a large group of Daesh fighters in close combat in eastern Mosul. A pair of Tornados worked in very close coordination with the Iraqi unit to establish both their precise positions and those of the terrorists. As a result, two Paveway IV guided bombs were dropped with great accuracy through the clouds. The Iraqis reported that they had scored direct hits, killing their opponents. The Tornados then provided assistance to troops fighting in the north of the city, who had encountered a building from where Daesh were directing rocket-propelled grenades and heavy machine-gun fire. As before, the Tornado crews	Tornado	Iraq	2 Paveway IV guided bombs, Enhanced Paveway II 1,000lb bombs	ISIS fighters, ISIS building

	were unable to see the target themselves but were able to demolish the building with an Enhanced Paveway II guided bomb without injury to the nearby Iraqi forces.				
18 Dec 2016	A Reaper operated over the northern outskirts of Mosul on Sunday 18 December. Its crew observed a number of Daesh fighters on board an armoured truck which proceeded to drive at speed towards Iraqi positions just north of the city. A Hellfire missile from the Reaper brought the attempted attack to an immediate halt, knocking out the truck.	Reaper	Iraq	1 Hellfire missile	Armoured truck
19 Dec 2016	Two Typhoons armed with Paveway IV guided bombs attacked two buildings east of Tall Afar, which intelligence had revealed were being used by Daesh as accommodation blocks. One building was completely demolished, the other set ablaze by the strike.	Typhoon	Iraq	Paveway IV guided bombs	2 ISIS buildings
20 Dec 2016	Operating again in challenging conditions over Mosul on Tuesday 20 December, two Tornados were still able to support Iraqi forces as they engaged a Daesh light machine-gun team defending a building in the north-eastern area of the city. As with the attacks a few days earlier, the Iraqi troops were very close to the target, but our aircrew carried out a successful attack with a Paveway IV.	Tornado	Iraq	1 Paveway IV guided bomb	Machine gun team
21 Dec 2016	Wednesday 21 December saw Typhoons tasked with the destruction of a Daesh-held building some miles to the north-east of Bayji, where intelligence reports indicated a number of improvised explosive devices had been stockpiled by the terrorists. A Paveway IV levelled the building.	Typhoon	Iraq	1 Paveway IV guided bomb	IED store
21 Dec 2016	In eastern Mosul, Iraqi troops came upon a heavy machine-gun team, once again fortified inside a building, and sought assistance from a Tornado patrol which was able to destroy the target with a Paveway IV.	Tornado	Iraq	1 Paveway IV guided bomb	ISIS building
22 Dec 2016	On Thursday 22 December, two Tornado GR4s, based at RAF Akrotiri, were tasked against one of the few tanks operated by Daesh, which had been spotted by coalition surveillance aircraft hidden under a tarpaulin in an orchard to the south-west of Sinjar. The tank was destroyed by a direct hit from a Brimstone missile.	Tornado	Iraq	1 Brimstone missile	Tank
23 Dec 2016	Typhoon FGR4s, armed with Paveway IV guided bombs, patrolled over Syria and successfully attacked a terrorist position which SDF fighters had encountered to the north of Tabaqah, near Lake Assad.	Typhoon	Iraq	?	ISIS position
23 Dec 2016	In Iraq, Tornados used Paveway IVs to destroy a weapons stockpile some 50 miles north-east of Haditha,	Tornado	Iraq	Paveway IV guided bombs	Weapons stockpile
23 Dec 2016	A Reaper remotely piloted aircraft assisted the Iraqi operations in Mosul; its crew conducted a thorough check for civilians who might be at risk before a successful coalition air strike destroyed another weapons stockpile. The Reaper then delivered an attack using one of its own Hellfire missiles to destroy an artillery piece loaded on a trailer	Reaper	Iraq	1 Hellfire missile	Artillery piece
25 Dec 2016	Christmas Day saw Mosul blanketed with thick	Typhoon	Iraq	1 Paveway IV	Bridge

	cloud, but both Typhoons and Tornados were able, by dint of close cooperation with the Iraqi forces on the ground, to prosecute Daesh targets in and around the city. A pair of Typhoons used a Paveway IV to attack a small bridge used by the terrorists,			guided bomb	
25 Dec 2016	Tornado flight attacked two Daesh strong-points with which the Iraqi troops were engaged in close combat; the first was destroyed by an Enhanced Paveway II guided bomb, the second – from which a machine-gun was firing – was struck by a Paveway IV. Both attacks were delivered blind through the cloud, but the Iraqi units reported direct hits which eliminated the threats that they had faced.	Tornado	Iraq	1 Enhanced Paveway II 1,000lb, bomb, 1 Paveway IV guided bomb	2 Strongpoints
27 Dec 2016	Typhoons continued to support the SDF operations in Syria, and on Tuesday 27 December, they used a Paveway IV to strike a heavy machine-gun position located in a building to the west of Raqqa.	Typhoon	Syria	1 Paveway IV guided bomb	Heavy machine gun position
29 Dec 2016	On Thursday 29 December, Tornado GR4 aircraft conducted successful airstrikes in both Iraq and Syria. A precision guided Paveway IV weapon was used to destroy a Daesh artillery position and weapons cache on the outskirts of Mosul. Concealed amongst trees under dense foliage, the Tornado was able to locate and score a hit against the Daesh target.	Tornado	Iraq	1 Paveway IV guided bomb	Artillery position, weapons cache
29 Dec 2016	A further weapons stockpile was targeted, this time in Mosul, by a Tornado-launched Brimstone weapon. The terrorist weapons were successfully destroyed by a direct hit.	Tornado	Iraq	1 Brimstone missile	Weapons stockpile
29 Dec 2016	The same Tornado formation was then tasked to a target in Syria, two kilometres north of Palmyra. A Brimstone weapon was used in a precision attack to destroy a Daesh artillery weapon which was mounted on a truck. Tornado aircraft conducted thorough checks before each strike to ensure that no civilians were put at risk.	Tornado	Syria	1 Brimstone missile	Artillery weapon
29 Dec 2016	Reaper remotely piloted aircraft struck three targets in Mosul, assisting Iraqi troops on the ground. Three Hellfire missiles were launched against three separate Daesh targets, including a mortar team hidden under a tree line.	Reaper	Iraq	3 Hellfire missiles	Mortar team, 2 targets
30 Dec 2016	On Friday 30 December, Royal Air Force aircraft overcame thunderstorms at RAF Akrotiri and poor weather conditions in the skies over Iraq and Syria in order to support the coalition's air campaign. Once again, the Reaper remotely piloted aircraft launched successful airstrikes in support of Iraqi troops who were being fired upon by Daesh fighters. In addition to two Hellfire missile strikes achieved in Mosul, the Reaper aircraft conducted valuable reconnaissance of the situation on the ground, enabling two strikes against Daesh by coalition aircraft.	Reaper	Iraq	Hellfire missiles	ISIS fighters