

United Kingdom UK

British Pound £		2009	2010	2011
GDP	£	1.39tr	1.46tr	
	US\$	2.18tr	2.25tr	
per capita	US\$	35,235	36,427	
Growth	%	-4.9	1.2	
Inflation	%	-0.6	3.0	
Def exp ^b	£	37.8bn		
	US\$	59.1bn		
Def bdgt ^a	£	38.7bn	36.7bn	32.9bn
	US\$	60.5bn	56.5bn	

US\$1=£ 0.64 0.65

^a Resource Accounting and Budgeting terms. Figure for 2011 excludes cost of capital charge included in previous years

^b NATO definition

Population 61,899,272

Age	0-14	15-19	20-24	25-29	30-64	65 plus
Male	8.9%	3.2%	3.5%	3.5%	23.3%	7.3%
Female	8.5%	3.1%	3.4%	3.3%	22.9%	9.2%

Capabilities

ACTIVE 178,470 (Army 102,600, Navy 35,480 Air 40,390)

RESERVE 82,274 (Regular Reserve £51,000 incl 5,420 RAF; Volunteer Reserve 31,274 (Army 27,010; Navy 2,785; Air 1,479)

Includes both trained and those currently under training within the Regular Forces, excluding university cadet units.

ORGANISATIONS BY SERVICE

Strategic Forces 1,000

Armed Forces

RADAR • STRATEGIC 1 Ballistic Missile Early Warning System *BMEWS* at Fylingdales Moor

Royal Navy

SUBMARINES • STRATEGIC • SSBN 4:

4 *Vanguard* each with 4 533mm TT each with *Spearfish* HWT, up to 16 UGM-133A *Trident D-5* SLBM (Each boat will not deploy with more than 48 warheads, but each missile could carry up to 12 MIRV, some *Trident D-5* capable of being configured for sub-strategic role)

MSL • STRATEGIC 48 SLBM (Fewer than 160 declared operational warheads)

Army 99,100; 3,500 (Gurkhas) (total 102,600)

Regt normally bn size

FORCES BY ROLE

1 Land Comd HQ, 1 multinational corps HQ, 3 deployable div HQ, 7 deployable bde HQ and 1 tri-service Joint Hel

Comd. The UK Field Army has a capability to form 46 battlegroups drawing on 5 armd regts, 5 armd recce regts, 8 armd inf bn, 3 mech inf bn, 21 lt inf bn, 2 para bns and 2 air aslt bns. Additional spt is provided from theatre troops.

Comd 1 (Allied Command Europe Rapid Reaction Corps - ARRC) multinational corps HQ, 1 (6th) div HQ

Armd 1 div (1st) with (2 armd bde (7th and 20th) (each: 1 armd regt, 1 armd recce regt, 2 armd inf bn, 1 lt inf bn); 1 mech bde (4th) with (1 armd regt, 1 armd recce regt, 1 armd inf bn, 1 mech inf bn, 2 lt inf bn, 1 (Gurkha) lt inf bn); 1 cbt spt gp with (3 SP arty regt; 1 AD regt; 3 cbt engr))

Mech 1 div (3rd) with (1 mech bde (1st) with (1 armd regt, 1 armd recce regt, 1 armd inf bn, 1 mech inf bn, 2 lt inf bn); 1 mech bde (12th) with (1 armd regt, 1 armd recce regt, 1 armd inf bn, 1 mech inf bn, 3 lt inf bn); 1 lt inf bde (19th) with (4 lt inf bn); 1 cbt spt gp with (2 SP arty regt; 1 arty regt; 1 AD regt; 2 cbt engr regt; 2 engr regt))

Lt Inf 3 bn (London District); 2 bn (Cyprus); 1 (Gurkha) bn (Brunei)

SF 1 (SAS) regt; 1 (speci recce reg) regt; 1 (SF spt) gp (based on para bn)

Air Aslt 1 bde (16th) with (2 para bn, 2 air aslt bn, 1 arty regt, 1 engr regt, 2 atk hel regt, 1 lt hel regt)

Arty 1 bde HQ

STA 1 regt

MRL 1 (MLRS) regt

AD 1 bde HQ (opcon RAF); 1 regt

Engr 1 force engr bde (4 EOD regt/bn, 1 Air Spt); 1 EOD bn

Log 2 log bde, 1 (log spt) bde

Trg 1 BG (based on 1 armd inf bn)

Avn 2 hel regt, 1 indep sqn, 3 indep flt

ISR UAV 1 regt

Home Service Forces • Gibraltar 200 reservists; 150 active reservists (total 350)

Reserves

Territorial Army 27,010 reservists

The Territorial Army has been reorganised to enable the regular army to receive relevant manpower support from their associated territorial unit.

Armd 2 regt

Armd Recce 2 regt

Lt Inf 13 bn

SF 2 (SAS) regt

Para 1 bn

Arty 3 lt regt

STA 1 regt

MRL 1 (MLRS) regt

AD 1 regt

Engr 5 regt, 1 (EOD) regt, 1 sqn, 1 (geo) sqn, 1 (cdo) sqn
 Avn 1 regt
 ISR UAV 1 regt

EQUIPMENT BY TYPE

MBT 325 CR2 *Challenger 2*

RECCE 738: 150 *Jackal*; 110 *Jackal 2*; 140 *Jackal 2A*; 327 *Scimitar*; 11 Tpz-1 *Fuchs*

AIFV 526 *Warrior*

APC 2,059+

APC (T) 1,535: 646 *AFV432*; 380 *Bulldog Mk3*; 394 *FV 103 Spartan*; 115 *Warthog* being delivered

APC (W) 524+: 109 *AT105 Saxon* (Northern Ireland only); 277 *Mastiff (4x4)*; 118 *Ridgeback*; 20+ *Wolfhound (6x6)*

LFV 401 *Panther*

ARTY 670

SP 155mm 130 *AS-90 Braveheart*

TOWED 105mm 118 *L-118 Light gun*

MRL 227mm 51 *MLRS/GMLRS*

MOR 371: 81mm SP 11; 81mm 360

AT • MSL • MANPATS *Javelin*

AIRCRAFT • TPT • Light 1 *Beech King Air 350ER* (3 more on order); 3 *BN-2T-4S Defender* (4th on order)

HELICOPTERS

ATK 66 AH-64D Apache

MRH 232: 77 Lynx AH MK7; 22 Lynx AH MK9; 133 SA-341 Gazelle

UAV • ISR • Medium *Hermes 450; Watchkeeper* (In Test – ISD expected 2011)

AD • SAM 338+

SP 134 FV4333 Stormer

TOWED 57+ Rapier FSC

MANPAD 147 Starstreak (LML)

RADAR • LAND 157: 4-7 Cobra; 150 MSTAR

AMPHIBIOUS 6 LCVF

LOGISTICS AND SUPPORT 5 RCL

Royal Navy 35,480**EQUIPMENT BY TYPE****SUBMARINES 11**

STRATEGIC • SSBN 4:

4 *Vanguard*, opcon Strategic Forces, each with up to 16 *UGM-133A Trident D-5 SLBM*, 4 single 533mm TT each with *Spearfish* HWT, (Each boat will not deploy with more than 48 warheads, but each missile could carry up to 12 MIRV; some *Trident D-5* capable of being configured for sub strategic role)

TACTICAL • SSN 7:

6 *Trafalgar* each with 5 single 533mm TT each with *Spearfish* HWT/*Tomahawk* tactical LACM/*UGM 84 Harpoon* AShM

1 *Astute* with 6 single 533mm TT with *Spearfish* HWT/*UGM-84 Harpoon* AShM/*Tomahawk* tactical LACM (additional vessels in build)

PRINCIPAL SURFACE COMBATANTS 25

AIRCRAFT CARRIERS • CVS 1

1 *Invincible* with 3 single Mk15 *Phalanx-1B/Goalkeeper* CIWS, (capacity 'tailored air group' 8–12 *Harrier GR9A*; 4 *AW-101 Merlin* ASW (HM Mk1) hel; 4 *Sea King* AEW Mk7 AEW hel)

DESTROYERS • DDHM 7

2 *Daring* (Type-45) each with 1 48 cell VLS with Aster 15/Aster 30 SAM, 1 114mm gun, (capacity 1 *Lynx/AW-101 Merlin* hel - additional vessels in build)

1 *Sheffield* (Type-42 Batch 2) each with 1 twin Inchr (2 eff.) with *Sea Dart* SAM, 2 single Mk15 *Phalanx* CIWS, 1 114mm gun, (capacity 1 *Lynx* hel)

4 *Sheffield* (Type-42 Batch 3) each with 1 twin Inchr (2 eff.) with *Sea Dart* SAM, 2 single Mk15 *Phalanx-1B* CIWS, 1 114mm gun, (capacity 1 *Lynx* hel)

FRIGATES • FFG 17

4 *Cornwall* (Type-22 Batch 3) each with 2 quad Mk141 Inchr (8 eff.) each with RGM-84C *Harpoon* AShM, 2 sextuple Inchr (12 eff.) each with *Sea Wolf* SAM, 1 *Goalkeeper* CIWS, 1 114mm gun, (capacity 2 *Lynx* hel) (all to be retired by April 2011)

13 *Norfolk* (Type-23) each with 2 quad Mk141 Inchr (8 eff.) each with RGM-84C *Harpoon* AShM, 1 32 cell VLS with *Sea Wolf* SAM, 2 twin 324mm ASTT (4 eff.) each with *Sting Ray* LWT, 1 114mm gun, (capacity either 2 *Lynx* or 1 *AW-101 Merlin* ASW (HM Mk1) hel)

PATROL AND COASTAL COMBATANTS 22

PSO 4: 3 River; 1 River (mod) with 1 hel landing platform

PB 18: 16 Archer (trg); 2 *Scimitar*

MINE WARFARE • MINE COUNTERMEASURES 16

MCO 8 Hunt (incl 4 mod *Hunt*)

MHC 8 Sandown (1 decommissioned and used in trg role)

AMPHIBIOUS**PRINCIPAL AMPHIBIOUS SHIPS 3**

LPD 2 Albion (capacity 2 med hel; 4 LCVP; 6 MBT; 300 troops) (1 to be transferred to extended readiness by Nov 2011)

LPH 1 Ocean (capacity 18 hel; 4 LCU or 2 LCAC; 4 LCVP; 800 troops)

LANDING CRAFT 36: 13 LCU; 23 LCVP

LOGISTICS AND SUPPORT 5

AGOBH 1 Endurance (capacity 2 *Lynx* hel)

AGHS 3: 1 Scott; 2 Echo

AGS 1 Gleaner (inshore/coastal)

FORCES BY ROLE

Navy/Marine 1 party located at Diego Garcia, BIOT

FACILITIES

Bases Located at Portsmouth (Fleet HQ), Faslane, Devonport, Gibraltar

Naval air bases Located at Prestwick, Culdrose, Yeovilton

Royal Fleet Auxiliary

Support and Miscellaneous vessels are mostly manned and maintained by the Royal Fleet Auxiliary (RFA), a civilian fleet owned by the UK MoD, which has approximately 2,500 personnel with type comd under CINCFLEET.

AMPHIBIOUS • PRINCIPAL AMPHIBIOUS SHIPS

LSD 4 Bay (capacity 4 LCU; 2 LCVP; 1 LCU; 24 CR2 *Challenger 2* MBT; 350 troops) (one to be decommissioned by Apr 2011)

LOGISTICS AND SUPPORT 18

AORH 4: 2 *Wave*; 2 *Fort Victoria* (1 to be decommissioned by Apr 2011)

AOR 2 *Leaf* (1 to be decommissioned by Apr 2011)

AORLH 2 *Rover*

AFSH 2 *Fort Rosalie*

ARH 1 *Diligence*

AG 1 *Argus* (aviation trg ship with secondary role as primarily casualty receiving ship)

AKR 6 *Point* (Not RFA manned)

Naval Aviation (Fleet Air Arm) 5,520**FORCES BY ROLE**

ASW	4 sqn with AW-101 ASW <i>Merlin</i> (HM Mk1); 1 sqn with <i>Lynx</i> HAS Mk3/ <i>Lynx</i> HMA Mk8; 1 flt with <i>Lynx</i> Mk3
AEW	3 sqn with <i>Sea King</i> AEW Mk7
SAR	1 sqn (and detached flt) with <i>Sea King</i> HU MK5
Spt	some (Fleet) sqn with Beech 55 <i>Baron</i> (civil registration); Cessna 441 <i>Conquest</i> (civil registration); <i>Falcon</i> 20 (civil registration); G-115 (op under contract); 1 sqn with <i>Lynx</i> AH MK7 (incl in Royal Marines entry); 3 sqn with <i>Sea King</i> HC Mk4
Trg	1 (operational evaluation) sqn with AW-101 ASW <i>Merlin</i> (HM Mk1); <i>Sea King</i> HC Mk4; 1 sqn with <i>Jetstream</i> T Mk2/3; 1 sqn with <i>Lynx</i> Mk3

EQUIPMENT BY TYPE**AIRCRAFT** 12 combat capable

TPT 21 *Light* 2: 1 Beech 55 *Baron* (civil registration); 1 Cessna 441 *Conquest II* (civil registration); **PAX 19 *Falcon* 20** (civil registration)

TRG 27: 5 G-115 (op under contract); 12 *Hawk* T Mk1*; 10 *Jetstream* T Mk2/T Mk3

HELICOPTERS

ASW 113: 71 *Lynx* HAS Mk3/*Lynx* HMA Mk8; 42 AW-101 ASW *Merlin* (HM Mk1)

MRH 6 *Lynx* AH Mk7 (incl in Royal Marines entry)

AEW 13 *Sea King* AEW Mk7

TPT • *Medium* 52: 37 *Sea King* HC MK4 (for RM); 15 *Sea King* HU Mk5

MSL • *AShM* *Sea Skua*

Royal Marines 6,840**FORCES BY ROLE**

LCA	3 sqn opcon Royal Navy; 1 sqn (539 Aslt Sqn RM)
Sy	1 Fleet Protection Group, opcon Royal Navy
SF	1 (SBS) regt
Cdo	1 bde (3 cdo (bn sized), 1 recce tp, 1 lt inf bn (army)) 1 cdo arty regt (army))
AD	1 bty (army)
Engr	1 regt (army)
Logistic	1 regt
Tpt Hel	2 sqn opcon Royal Navy

EQUIPMENT BY TYPE

APC (T) 142: 118 BvS-10 *Viking*; 24 BvS-10 Mk2 *Viking*

ARTY 18+

TOWED 105mm 18 L-118

MOR 81mm some

AT • *MSL* • *MANPATS* *Javelin*

AMPHIBIOUS • *LANDING CRAFT* • *LCAC* 4 *Griffon* 2400TD

HELICOPTERS

MRH 6 *Lynx* AH Mk7

TPT • *Medium* 37 *Sea King* HC Mk4

AD • *SAM* • *HVM*

RADAR • *LAND* 4 *MAMBA* (*Arthur*)

Royal Marines Reserve 600**Royal Air Force 40,390**

Flying hours 210/yr on fast jets; 290 on tpt ac; 240 on support hels; 90 on *Sea King*

FORCES BY ROLE

Ftr	1 sqn with <i>Tornado</i> F-3 (OSD March 2011)
FGA	5 sqn with <i>Tornado</i> GR4/GR4A; 4 sqn (incl 1 Op Eval Unit) with <i>Typhoon</i>
ISR	1 sqn with Beech 350 <i>Shadow</i> R1; <i>Sentinel</i> RMk1 (To be withdrawn from role post-Afghanistan)
ELINT	1 sqn with <i>Nimrod</i> R1 (OSD March 2011)
AEW&C	2 sqn with E-3D <i>Sentry</i>
SAR	2 sqn with <i>Sea King</i> HAR-3/3A
Tkr/tpt	1 sqn with L-1011-500 <i>Tristar</i> C2; <i>Tristar</i> K1; <i>Tristar</i> KC1; 1 sqn with VC-10C1K; VC-10K3; VC-10K4
Tpt	1 (comms) sqn with AS-355 <i>Squirrel</i> ; BAe-125; BAe-146; BN-2A <i>Islander</i> CC2; 1 sqn with C-17 <i>Globemaster</i> ; 4 sqn with C-130J/C-130K <i>Hercules</i>
OCU	2 sqn with <i>Typhoon</i> ; <i>Tornado</i> GR4
Trg	Units (including postgraduate training on 203(R) sqn) with Beech 200 <i>King Air</i> ; <i>Dominie</i> T1; EMB -312 <i>Tucano</i> (T Mk1); Grob 115E <i>Tutor</i> ; <i>Hawk</i> T Mk1/1A/1W; <i>Sea King</i> HAR-3/3A; T67M/M260 <i>Firefly</i>
Tpt Hel	2 sqn with AW-101 <i>Merlin</i> (HC Mk3); 1 sqn Bell 412EP <i>Griffin</i> ; 3 sqn with CH-47 <i>Chinook</i> ; 2 sqn with SA-330 <i>Puma</i> ; 3 sqn with <i>Sea King</i> HAR-3

Cbt ISR UAV 1 sqn with MQ-9 *Reaper*

NBC 1 (joint service) regt

EQUIPMENT BY TYPE**AIRCRAFT** 334 combat capable

FTR 12 *Tornado* F-3 (to be withdrawn from service by end Mar 2011)

FGA 177: 105 *Tornado* GR4/GR4A; 72 *Typhoon*

ISR 9: 4 Beech 350 *Shadow* R1; 5 *Sentinel* RMK1

ELINT 2 *Nimrod* R1 (OSD March 2011)

AEW&C 6 E-3D *Sentry*

TKR/TPT 22: 2 *Tristar* K1; 4 *Tristar* KC1; 10 VC-10C1K; 4 VC-10K3; 2 VC-10K4

TPT 70: Heavy 7 C-17A *Globemaster*; **Medium** 43: 10 C-130J *Hercules*; 14 C-130J-30 *Hercules*; 3 C-130K *Hercules*; 16 C-130K-30 *Hercules*; **Light** 9: 7 Beech 200 *King Air* (on lease); 2 BN-2A *Islander* CC2/3 **PAX** 11: 6 BAe-125 CC-3-5; 2 BAe-146 MkII; 3 L-1011-500 *Tristar* C2

TRG 366: 9 *Dominie* T1; 95 EMB-312 *Tucano* T1; 101 G-115E *Tutor*; 28 *Hawk* 128*; 117 *Hawk* T Mk1/1A/1W*; 38 T67M/M260 *Firefly*

HELICOPTERS

MRH 47: 31 AS-355 *Squirrel*; 4 Bell 412EP *Griffin* HAR-2; 12 Bell 412EP *Griffin* HT1

TPT 128: **Heavy** 41: 40 CH-47 HC2/2A *Chinook*; 1 CH-47 HC3 *Chinook* in test; **Medium** 87: 28 AW-101 *Merlin* (HC Mk3); 34 SA-330 *Puma* HC1; 25 *Sea King* HAR-3A

UAV • CBT/ISR • Heavy 5+ MQ-9 *Reaper*

MSL

AAM • IR AAM AIM-9L/AIM-9L/I *Sidewinder*; **IIR**

AAM ASRAAM; SARH AAM *Skyflash*; **ARH AAM** AIM-120B/AIM-120 C5 AMRAAM

ARM ALARM

ASM *Brimstone*; *Dual-Mode Brimstone*; AGM-65G2 *Maverick*

LACM *Storm Shadow*

BOMBS

Conventional Mk 82; CRV-7

Laser-Guided/GPS: *Paveway* II; GBU-10 *Paveway* III; Enhanced *Paveway* II/III; GBU-24 *Paveway* IV

Royal Air Force Regiment

FORCES BY ROLE

Air 3 (tactical Survival To Operate (STO)) sqn + HQ; 7 (fd) sqn

Trg 1 (joint) unit (with army) with *Rapier* C

Tri-Service Defence Hel School

HELICOPTERS: 28 AS-350 *Ecureuil*; 7 *Griffin* HT1

Volunteer Reserve Air Forces

(Royal Auxiliary Air Force/RAF Reserve)

Air 1 (air movements) sqn; 2 (intelligence) sqn; 5 (field) sqn; 1 (HQ augmentation) sqn; 1 (C-130 Reserve Aircrew) flt

Medical 1 sqn

DEPLOYMENT

Legal provisions for foreign deployment:

Constitution: Uncodified constitution which includes constitutional statutes, case law, international treaties and unwritten conventions

Decision on deployment of troops abroad: By the government

AFGHANISTAN

NATO • ISAF 9,500;

Army: 1 div HQ (6th); 1 air aslt bde HQ (16th) with (1 recce regt; 2 para bn; 2 air aslt bn; 2 lt inf bn); *Jackal*; *Scimitar*; *Warrior*; *Spartan*; *Mastiff*; *Ridgeback*; *Warthog*

Wolfhound; L-118; GMLRS; AH-64D *Apache*; *Lynx*; *Hermes* 450

Royal Navy: *Sea King* HC Mk4

Air Force: *Tornado* GR4/GR4A; C-130 *Hercules*; CH-47 *Chinook*; HC Mk3 *Merlin*; Beech *King Air* 350 *Shadow* R1; MQ-9 *Reaper*

ARABIAN SEA

Combined Maritime Forces • TF-53: 1 ARH

Combined Maritime Forces • CTF-150: 1 FFGHM

ARABIAN SEA & GULF OF ADEN

Combined Maritime Forces • CTF-151: 1 AORH

ARMENIA/AZERBAIJAN

OSCE • Minsk Conference 1

ASCENSION ISLAND

Air Force 23

ATLANTIC (NORTH)

Royal Navy 1 DD/FF; 1 AO

ATLANTIC (SOUTH)

Royal Navy 1 DD/FF; 1 AO

BAHRAIN

Royal Navy 100; **Air Force** 1 BAe-125, 1 BAe-146

BELIZE

Army 70

BOSNIA-HERZEGOVINA

EU • EUFOR • Operation Althea 4

OSCE • Bosnia and Herzegovina 2

BRITISH INDIAN OCEAN TERRITORY

Royal Navy 40; 1 Navy/Marine party at Diego Garcia

BRUNEI

Army 550; 1 Gurkha bn; 1 jungle trg centre; 1 hel flt with 3 hel

CANADA

Army 370; 2 trg units **Royal Navy** 10; **Air Force** 10

CYPRUS

Army 1,700; 2 inf bn

Navy 20

Air Force 870; 1 SAR sqn with 4 Bell 412 *Twin Huey*; 1 radar (on det)

UN • UNFICYP 271; 1 inf coy

DEMOCRATIC REPUBLIC OF THE CONGO

UN • MONUC 4 obs

FALKLAND ISLANDS

Army 420; 1 AD det with *Rapier* FSC

Navy 420; 1 OPV

Air Force 680; 1 ftr flt with 4 E-F *Typhoon* FGR.4; 1 SAR sqn with *Sea King* HAR-3A/*Sea King* HAR-3; 1 tkr/tpt flt with C-130 *Hercules*; VC-10 K3/4

GERMANY

Army 18,230; 1 corps HQ, 1 armd div with (2 armd bde)

Navy 40

Air Force 260

GIBRALTAR

Army 270 (incl 175 pers of Gibraltar regt)
Air Force 70 some (periodic) AEW det

GULF OF ADEN & SOMALI BASIN

NATO • *Operation Ocean Shield* 1 FFGHM

IRAQ

Royal Navy: 75; 1 Navy Transition Team (training the Iraqi Riverine Patrol Service (IRPS))
NATO • NTM-I 15
UN • UNAMI 1 obs

KENYA

Army trg team 120

KUWAIT

Army 30

MOLDOVA

OSCE • Moldova 1

NEPAL

Army 280 (Gurkha trg org)

NETHERLANDS

Air Force 100

NORTH SEA

NATO • SNMCMG1: 1 MHC

OMAN

Army 40
Royal Navy 30
Air Force 20: 1 *Sentinel*; 1 *Tristar* tkr

PERSIAN GULF

Combined Maritime Forces • CTF-152: 2 MCO; 2 MHC; 2 LSD; 1 AOT

QATAR

Air Force 4 C-130J

SERBIA

NATO • KFOR 4
OSCE • Serbia 3
OSCE • Kosovo 10

SIERRA LEONE

IMATT 30

SUDAN

UN • UNMIS 5 obs

UGANDA

EU • EUTM 2

UNITED STATES

Army/Royal Navy/Air Force £540

FOREIGN FORCES

United States

US European Command: 9,221; 1 ftr wg at RAF Lakenheath with (1 ftr sqn with 24 F-15C *Eagle*/F-15D *Eagle*, 2 ftr sqn with 24 F-15E *Strike Eagle*); 1 tkr wg at RAF Mildenhall with 15 KC-135 *Stratotanker*; 1 Special Ops gp at RAF Mildenhall with 5 MC-130H *Combat Talon II*; 5 MC-130P *Combat Shadow*; 1 C-130E *Hercules*
US Strategic Command: 1 Ballistic Missile Early Warning System (*BMEWS*) at Fylingdales Moor; 1 Spacetrack radar at Fylingdales Moor;