MO 18/3



3400

PRIME MINISTER

OD (D)

As background to our forthcoming discussion on arms control and disarmament, I asked my people to prepare some statistical information on the nuclear balance, the balance of conventional forces and on comparative defence expenditure. I asked that the figure work should embrace nuclear systems not covered by START and INF, and the forces and expenditure of significant military powers outside NATO and the Warsaw Pact.

- 2. Comparisons of this sort are very difficult to make and the data produced thus far is provisional. The way in which different systems are counted may also differ in some respects from the papers circulated by the Foreign and Commonwealth Secretary. I thought, however, that you and the others involved in the OD(D) discussion might find the information prepared of background interest and a copy is therefore attached.
- 3. I am copying this minute and the attachments to the Foreign and Commonwealth Secretary, Richard Luce, John Stanley and Sir Robert Armstrong and also to the Secretary of State for Energy.

Mound

Ministry of Defence 13th December 1983

SECRET

THE NUCLEAR BALANCE - NOVEMBER 1983(1)(2)

Range 1000 - 5500 km		THE NOOLLAN DALAN	CE - NOVEMBER 1983\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Range 1000 - 5500 km	STRATEGIC SYSTEMS	LONGER RANGE INF IN EUROPE (3)	SHORTER RANGE INF IN EUROPE(3)	SHORT RANGE FORCES IN ROPE(3)	
Carrier Carr		Range 1000 — 5500 km	Range 150 - 1000 km		
347 Bombers 942 SLBMs 1398 ICBMs 328 Bombers 672 SLBMs 1045 ICBMs 325 Aircraft 483 Missiles 180 Aircraft 18 Fr S3 MRBMs 180 Aircraft 180 Missiles 142 Missiles 142 Missiles	ICBMs: SS11, 13, 17, 18, 19 SLBMs: SS-N-5, 6, 8, 17, 18, 20 Bombers: Bear, Bison, Backfire USA ICBMs: Titan II, Minuteman 2 & 3 SLBMs: Poseidon, Trident Bombers: B52, FB111 UK: 64 Polaris SLBMs	W.P. Aircraft: Badger, Blinder Missiles: SS4, SS5, SS20 Missiles: SS4, SS5, SS20 Aircraft: Fitter, Fishbed, Flogger Fencer, Foxbat Missiles: Scaleboard/SS22 Scud/SS23 NATO Aircraft: F111 Seidon, Trident 2, FB111 W.P. Aircraft: Fitter, Fishbed, Flogger Fencer, Foxbat Missiles: Scaleboard/SS22 Scud/SS23 NATO Aircraft: F16, F4, F104, Jaguar, Buccaneer Tornado (150 Fr Mirage IIIe, Super and Jaguar		W.P. Missiles: Frog/SS 21 Artillery: 203/105/240mm NATO Missiles: Lance, Honest John (30 Fr Plutons)	
100 Wishies 172 Wishies	347 Bombers 942 SLBMs 328 Bombers 672 SLBMs	483 Missiles 18 Fr S3 MRBMs	Aircraft 730 Aircraft 659 Missiles	766 Artillery 700 Missiles	
USSR USA/UK/FR WP NATO (inc FR) WP NATO (inc FR) WP NATO (inc FR) WP NATO (inc FR)	USSR USA/UK/FR	WP NATO (inc FR)			

- MIRV

USSR

SLBMs - 2566 warheads

- 6420 warheads . **ICBMs**

SS20 - 729 warheads

US

4960 warheads

- (1) Maritime systems included in Annex 2
- (2) Defensive systems not included
- (3) Systems other than those in Europe covered in Annex 2
- (4) Includes all Soviet Aircraft with nuclear association proportion which would be used in nuclear role not known.

SUB-STRATEGIC NON-EUROPEAN NUCLEAR CAPABLE LAND-BASED SYSTEMS

SUB-STRATEGIC NUCLEAR CAPABLE NAVAL SYSTEMS – WORLDWIDE

USSR

Aircraft (1): Badger, Fencer, Flogger, Fitter, Fishbed, Foxbat Missiles: SS-20, Scaleboard/SS22, Scud/SS23, Frog

Missiles: SS-20, S Artillery: 152, 203

152, 203, 240mm

USA

Aircraft (1): F111, F4, F16, A6, A7, A10, A4, F15, F105

Missiles/Artillery(2) ?

CHINA

Aircraft: Badger

Missiles: CSS-1, CSS-2

USSR

Aircraft: Badger, Fitter

Missiles: SS-N;2, 3, 7, 9, 12, 19, 22

and SS-N-5 on GOLF II

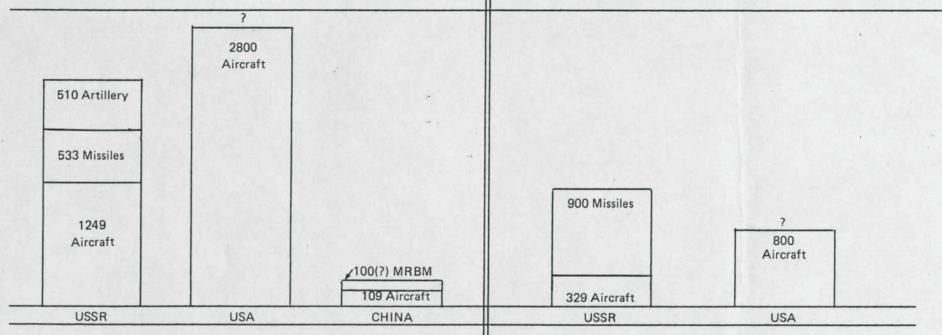
USA

Aircraft: F4, A6, A7

Missiles (1)?

UK

Aircraft: 18 Buccaneer



- (1) Includes all aircraft with nuclear association proportion which would be used in nuclear role not known.
- (2) Numbers of nuclear capable missiles and artillery in USA not known.
- (1) Numbers of nuclear capable tactical missiles with US Navy not known

NATO DEFENCE EXPENDITURE - 1982

	Total Defence Expenditure (US 8 million)	Defence Expenditure as a proportion of GDP
BELGIUM	2892	3.4%
CANADA	6205	2.1
DENMARK	1400	2.5
FRANCE	22522	4.2
GERMANY (WEST)	22350	3.4
GREECE	2639	7.0
ITALY	9090	2.6
LUXEMBOURG	41	1.3
NETHERLANDS	4464	3.2
NORWAY	1698	3.0
PORTUGAL	803	3.4
TURKEY	2755	5.2
UK	24243	5.1
USA	196345	6.5
NATO EUROPE	94897	3.8
NATO TOTAL	297447	5.1

Note: Figures for calendar year 1982, using NATO definition of defence expenditure. 1982 average market exchange rates.

WARSAW PACT DEFENCE EXPENDITURE

Country	Defence Budget (as pub-lished)	Estimate Expend. (1)		Expenditure in dollars (million) (2)
Soviet Union (1981) (bn Roubles) (3)	17.1	86-95	14-16	222,000
GDR (1982) (bn GDR Marks)	10.8	13.3	5-6	4,300
Czech (1980) (bn Crowns)	22.9	23.1	about 3½	6,100
Poland (1980) (bn Zlotys)	70.4	82.0	3-4	2,500
Hungary (1982) (bn Forints)	20.2	24.9	about 3	8,400
Romania (1981) (bn Lei)	10.4	22.6	about 3½	3,400
Bulgaria	NA	NA	NA	

- (1) Based on DIS and NATO estimates
- (2) All figures are from US sources. Most recent estimates we have are 1981 for USSR and 1980 for NSWP. Figures are converted to dollars by estimating what it would cost in the US to reproduce the defence activity of the WP countries. Figures are therefore not directly comparable to NATO figures.
- (3) Burden for 1982 cannot yet be provided because of the price reform.

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DEFENCE EXPENDITURE OF OTHER SELECTED COUNTRIES

Country	Defence Budget (as published)	% GNP/GDP	Estimated in dollar (million)	921
China (1981) (bn yuan)	20,170	5% GNP (UK estimate 8%)	11,870	
Japan (1982) (bn yen)	2,586.1	0.98% GNP	10,361	
India (1982) (bn Rs)	53.500	3.7% GDP	5,556	
North Korea (1983) (bn Won)	3.602	10.2% GNP	1,916	
South Korea (1982) (bn Won)	3,782	7.5% GDP	5,173	
Pakistan (1982) (bn Rs)	22.878	6% GDP	1,801	
Iran (1982) (bn Rial)	576.80 - 1,111.90	6 - 11% GDP	6,900 - 13,300	
Yugoslavia(1982) (bn Dinar)	119.0	5% GMP *	2,319	

^{*} GMP = Gross Material Product