

SAS OPTS FOR A330/A340 ● MIG PREPARES TO FLY NEW FIGHTER


# FLIGHT

INTERNATIONAL

20 - 26 JANUARY 1999 £2

A Reed Business Publication

Denmark Dkr 33 ● France Fr20  
Germany DM 11.80 ● Greece Dra1100  
Holland Dfl 8.95 ● Italy L6000  
Norway Nkr37.00 ● Malta LM115  
Spain Ptas650 ● USA \$4.75



Ref: BLO9SEPT97 PF 071197/ Df: 28521880  
FLIGHT INTERNATIONAL (G B)  
20.01.99 Vol: 155 No. 4660  
0015-3710 21872678 19.01.99  
LIBRIS  
144 BLVD KRIM BELKACEM  
ALGER  
ALGERIE

## SIZING UP INSIDE THE SUPER HORNET

CIVIL  
AVIONICS

INCLUDING F/A-18E  
CUTAWAY POSTER





**HEAD OFFICE**

Quadrant House, The Quadrant, Sutton, Surrey SM2 5AS, UK  
 Telephone +44 (181) 652 3842; Fax +44 (181) 652 3840  
 e-mail flight.international@rbi.co.uk

**Editorial Enquiries +44 (181) 652 3842**

<b>Editor</b> Carol Reed	+44 (181) 652 4989
<b>News Editor</b> Andrew Chuter	+44 (181) 652 3843
<b>Operations/Safety Editor</b>	
David Learmount	+44 (181) 652 3845
<b>Business Editor</b>	+44 (181) 652 3835
<b>Commercial Aviation Editor</b>	
Max Kingsley-Jones	+44 (181) 652 3825
<b>Defence Aviation Editor</b>	+44 (181) 652 3834
<b>Corporate &amp; General Aviation Reporter</b>	
Kate Sarsfield	+44 (181) 652 3885
<b>Spaceflight Correspondent</b> Tim Furniss	+44 (1237) 471960
<b>Editorial Assistant</b>	+44 (181) 652 3842
<b>Group Production Editor</b> Graeme Osborn	+44 (181) 652 3828
<b>Group Design Editor</b> Jo Pearce	+44 (181) 652 4994
<b>Chief Sub-Editor</b> Chris Thornton	+44 (181) 652 3850
<b>Layout Sub-Editor</b> Annabel Wells	+44 (181) 652 3848
<b>Senior Technical Artist</b> Tim Hall	+44 (181) 652 8047
<b>Technical Artist</b> Giuseppe Picarella	+44 (181) 652 8054
<b>Editorial Artist</b> Gareth Burgess	+44 (181) 652 8043
<b>Photographer</b> Mark Wagner	+44 (181) 944 5225
<b>Picture Librarian</b> Kim Hearn	+44 (181) 652 3427
<b>Newsletters Editor</b> Emma Kelly	+44 (181) 652 3096
<b>Air Transport Intelligence</b>	+44 (181) 652 8724

**EUROPE/MIDDLE EAST**

<b>European Editor (Paris)</b> Julian Moxon	+33 (1) 47 55 95 60
<b>Fax</b>	+33 (1) 47 55 95 61
<b>Munich Correspondent</b> Andrew Doyle	+49 (89) 910 76 780
<b>Fax</b>	+49 (89) 910 76 217
<b>Israel Correspondent</b> Arie Egozi	+972 (3) 967 1155
<b>Moscow Correspondent</b>	+7 (095) 393 4717
Alexander Velovich	<b>Fax</b> +7 (095) 393 4717

**AMERICAS**

<b>Washington Office</b>	<b>Fax</b> +1 (703) 836 8344
<b>Americas Editor</b> Graham Warwick	+1 (703) 836 3448
<b>East Coast Editor</b> Paul Lewis	+1 (703) 836 3084
<b>Washington Correspondent</b> Ramon Lopez	+1 (703) 836 7443
<b>West Coast Editor</b> Guy Norris	+1 (949) 252 8971
<b>Fax</b>	+1 (949) 252 8972

**ASIA PACIFIC**

<b>Asia Editor (Singapore)</b> Andrzej Jeziorski	+65 434 3309
<b>Fax</b>	+65 338 6171
<b>Australia Correspondent</b> Paul Phelan	+61 (7) 4053 2791
<b>Fax</b>	+61 (7) 4053 3003

**READER SERVICES**

<b>Subscriptions</b> Karen Parker, Flight International Subscriptions, Reed Business Information, PO Box 302, Haywards Heath, West Sussex. RH16 3DH. UK.	
<b>Telephone/credit card orders</b>	+44 (1444) 445454
<b>Fax</b>	+44 (1444) 440619
<b>e-mail</b> rbi.subscriptions@rbi.co.uk	
<b>US subscriptions</b> PO Box 7542, Highlands Ranch, CO 80126-7542	+1-800 (637) 6073
<b>from Canada</b>	<b>Fax</b> +1-800 (327) 9021
	+303 (470) 4426
	<b>Fax</b> +303 (470) 4691
<b>Far East subscriptions</b>	+65 338 3398
<b>Fax</b>	+65 338 3213
Reed Asian Publishing (Pte) Ltd No.1 Temasek Avenue, #17-01 Millenia Tower, Singapore 039192	
<b>Newstrade enquiries</b>	+44 (171) 261 7704
<b>US Newstrade Enquiries</b>	+1 (718) 392 7477
<b>Flight International Directories</b>	+44 (1707) 665151
<b>Fax</b>	+44 (1707) 660330
<b>Back issues</b> ESCO Business Services	+44 (1371) 810433
<b>Recent copies only</b>	<b>Fax</b> +44 (1371) 811065
<b>Flight International website</b>	http://www.flightinternational.com
<b>For a full listing of RBI magazines</b>	http://www.reedbusiness.com
<b>Qualified Subscription Rates:</b> 1 year 2 year 3 year	
<b>Europe</b>	£75/\$125 £130/\$217 £168/\$281
<b>All Other Countries</b>	£84/\$140 £139/\$245 £180/\$321
Only paid subscriptions available. Cheques made payable to Flight International.	

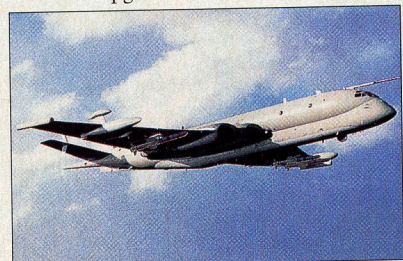
**Newstrade Distributed by Marketforce (UK) Ltd**

Flight International is a weekly news magazine for professionals working in all sectors of the aerospace industry worldwide, serving all branches of airframe systems, support equipment and component manufacture and all sectors of operation, including air transport, general aviation, defence, spaceflight and regulatory and other authorities.

<b>Comment</b> .....	3
<b>Headlines</b>	
SAS opts for A330/A340s.....	6
USA threatens Russian launch plans	
Australia goes to war on chemicals	7
ESA aims for more flexible programming	
Pakistan orders more fighters .....	8
MAPO aims to fly 1.44 soon .....	9

<b>Air Transport</b>	
President steps in at PAL .....	10
Swisscargo abandons spin-off proposal	
CIT poised for large aircraft order	11
Japanese prosecutors call off Nagoya case	
Lawyers express MD-11 concerns.	12
FAA imposes payload limits on cargo 727s	
JAL forms oneworld links.....	13
737 rudder checks planned	
Airbus predicts lower 1999 sales ...	16
EVA ditches plans to take a stake in Myanmar	

<b>Defence</b>	
USN takes first rebuilt Prowlers ...	17
Indian AEW demonstrator in fatal crash	
British Army rethinks UAV options	18
P&W powers up F119 for F-22	
Russian air force 'needs overhaul'.	19
RAF Nimrod upgrade schedule set back	



Nimrod upgrade delivery is delayed until 2002

<b>Business</b>	
Government bank eyes CAL stake	21
Milan moves on Aeroporti d'Rome merger	
<b>General Aviation</b>	
TAI plans September testing .....	22
DaimlerChrysler orders A319 Corporate Jet	
NBAA sets fractional safety rules	23
Agusta plans May certification for Koala	

<b>Spaceflight</b>	
Delta IIs will launch Globalstars ...	24

<b>News Analysis</b>	
Boom goes bust.....	25
Large aircraft market set to slow down	

<b>Features</b>	
Thriving business .....	27
Arkia has ambitious expansion plans	



Arkia has opted for ATR 72s on domestic routes

Mercenary intentions.....	28
SAMs bring new dimension to Angolan conflict	
Sticky business.....	31
NASA's next mission will collect comet dust	
Command decisions .....	32
Fly-by-wire systems become more common	

**COVER STORY**

**The Flight International F/A-18E/F supplement, Part 1, studies the Super Hornet upgrade, keeping it in service after 2020.**

**SIZING UP**  
INSIDE THE SUPER HORNET

CIVIL AVIONICS INCLUDING F/A-18E CUTAWAY POSTER

<b>People</b> .....	51
<b>Letters</b> .....	52
<b>Straight and Level</b> .....	53
<b>Classified</b> .....	54

The top international marketplace for aircraft, equipment, tuition and jobs.



The Flight International F/A-18E/F supplement, Part 2, continues to study in depth Boeings plans for the Super Hornet.