AIRBUS STUDIES A330 SHRINK • ISRAEL CLOSES ON JSF

INTERNATIONAL

18-24 AUGUST 1999 £2.20

A Reed Business Publication

Denmark Dr. 36 ● France Fr2:
Germany DM 13 ● Greece Dra1300
Holland Df! 9.95 ● Italy L6700
Norway Nkr41.00 ● Malta LM1.35
Spain Ptas725 ● USA \$5.25

TOP

Ref: C 2 PF 171198/01 Df: 27745198 FLIGHT INTERNATIONAL (G B) 18.08.99 Vol: 156 No. 4690 0015-3710 22101144 17.08.99 LIBRIS 144 BOULEVARD KRIM BELKACEM ALGER ALGERIE

FINALLY FLYING THE READY? C-130J HERCULES

US-CANAVA CRISIS



HEAD OFFICE

Quadrant House, The Quadrant, Sutton, Surrey SM2 5AS, UK. Fax +44 (20) 8652 3840 Telephone +44 (20) 8652 3842; e-mail flight.international@rbi.co.uk

Editorial Enquiries	+44 (20) 8652 3842
Luitoriai Liiquiries	T44 (20) 0002 0042

Editorial Enquiries	+44 (20) 8652 3842
Editor Carol Reed	+44 (20) 8652 4989
Editor's PA Debra Warburton	+44 (20) 8652 3835
News Editor Andrew Chuter	+44 (20) 8652 3843
Deputy News Editor Emma Kelly	+44 (20) 8652 3096
Features Editor DeeDee Doke	+44 (20) 8652 3852
Commercial Aviation Editor	
Max Kingsley-Jones	+44 (20) 8652 3825
Operations/Safety Editor	
David Learmount	+44 (20) 8652 3845
Business Editor Chris Jasper	+44 (20) 8652 3990
Defence Aviation Editor Stewart Penne	+44 (20) 8652 3834
Corporate & General Aviation Reporte	er 🦠
Kate Sarsfield	+44 (20) 8652 3885

+44 (20) 8652 3885
+44 (1237) 471960
+44 (20) 8652 3842
+44 (181) 652 3828
+44 (20) 8652 4994
+44 (20) 8652 3850
+44 (20) 8652 3848

Air Transport Intelligence	+44 (20) 8652 8724
Picture Librarian Kim Hearn	+44 (20) 8652 3427
Photographer Mark Wagner	+44 (20) 8944 5225
Editorial Artist Gareth Burgess	+44 (20) 8652 8043
Technical Artist Giuseppe Picarella	+44 (20) 8652 8054
Chief Technical Artist Tim Hall	+44 (20) 8652 8047
Layout Sub-Editor Annabel Wells	+44 (20) 8652 3848
Cilior dan Editor Cilio Highlich	144 (20) 0002 0000

EL	JROP	E/MI	DDLE	EAS	
Eur	ropear	Edito	r (Paris)	Julian	Moxon

Earopour Eartor (i ario) oundir ivioxon	100 (1) 17 00 00 00
	Fax +33 (1) 47 55 95 61
Munich Correspondent Andrew Doyle	+49 (89) 910 76 780
	Fax +49 (89) 910 76 217
Israel Correspondent Arie Egozi	+972 (3) 967 1155
Moscow Correspondent	+7 (095) 393 4717
Alexander Volovich	Eav 17 (005) 202 4717

AMERICAS

Washington DC Office	Fax +1	(703)	836	8344
Americas Editor Graham Warwick	+1	(703)	836	3448
East Coast Editor Paul Lewis	+1	(703)	836	3084
Washington Correspondent Ramon Lopez	2 +1	(703)	836	7443
West Coast Editor Guy Norris		(949)		
	Fax +1	(949)	252	8972

ASIA PACIFIC

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

READER SERVICES

Subscriptions Karen Parker, Flight International Subscriptions, Reed Business Information, PO Box 302, Haywards Heath, West Sussex. RH16 3DH. UK.

icichilolic/cicuit cara oracis	+44 (1444) 443434
	Fax +44 (1444) 440619
e-mail	rbi.subscriptions@rbi.co.ul
US subscriptions PO Box 7542,	+1-800 (637) 6073
Highlands Ranch, CO 80126-7542	Fax +1-800 (327) 9021
from Canada	+303 (470) 4426
THE RESERVE OF THE PARTY.	Fax +303 (470) 4691
Newstrade enquiries	144 (20) 7261 770/

+303 (470) 4426
Fax +303 (470) 4691
+44 (20) 7261 7704
+1 (718) 392 7477
+44 (1707) 665151
Fax +44 (1707) 660330
+44 (1371) 810433
Fax +44 (1371) 811065

Flight International website	http://www.flightinternational.com			
For a full listing of RBI magazines	http	o://www.reedb	usiness.com	
Qualified Subscription Rates:	1 vear	2 year	3 year	

Qualified Subscription Rat	es: 1 year	2 year	3 year
Europe	£75/\$125	£130/\$217	£168/\$281
All Other Countries	£84/\$140	£147/\$245	£192/\$321
Only paid subscriptions available.	Cheques made	e payable to Flig	tht 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.

Headlines

Airbus looks at A330 shrink	.4
Clinton offers US missile link to BVRAAM	
Israel is close to joining JSF	
Pratt & Whitney engine plan for 428JET	
Boeing acts on 777 electrics failure	(
KLM uk readies for low-cost division	

Comment

Air Transport
Caledonian to be absorbed
AlliedSignal to flight test A900 jet turbofan
FAA orders insulation changes
MetroJet slows down due to 737 shortage
Integrity in Trislander talks 10
Smart cards the way forward, says IATA boss
Boeing's long-range 757 plans 13
Crash sparks pilot rest rules revisions



Continental could be in line for new 757

Aerospace North America

Export changes hit Canada hard ... 14 Government in talks over subsidies

Tate '99

CAL splits fleet renewal order	16
Taiwan cuts helicopter buying programme	

Defence

Lockheed ponders C-27 site	17
Grounded Chinooks set to fly USAF looks at new role for laser	18
Anger as MoD scraps STSA competition Spain considers Sikorsky upgrade .	19
NATO agency turns down Raytheon prote Decoy nears end of flight testing	



Japan postpones tanker funding plans

As Boeing rolls out its latest model, the Boeing 767-400ER, Flight International takes an in-depth look at the new twinjet's development and technical features.

General Aviation

Unison to test EPIC next month	22
Fatal collision sparks VFR/IFR debate	
Raytheon Travel Air boosts fleet	23
Gulfstream looks at engine upgrade for jet	

In-Flight Entertainment

MAS launches A/VOD on 777	24
WAFA investigates live broadcast satellite	

Business

Over-capacity hits Euro airlines	26
El Al brings in US bank over funding	
Falling ticket prices hit US profits	27
Cathay Pacific back in the black	



Our Airline Top 50 reveals 1998's winners and losers in a comprehensive industry-wide financial survey

Spaceflight

Seal plug caused shuttle fuel leak	28
First Euro experiments ready for ISS	
Canada asks Europe for satellite	29

Mir crew finally deploy comms antenna

Features

Harsh lessons to learn	31
Airline top 50	
South Africa adds life to C-130Xs.	41
Marshall Aerospace nears end of system to	rials
Flight test: C-130J	
Vehicle set for entry into service	

Letters.....

Uncle Roger is away

	Classified 48	
Š	Aircraft for sale, services, courses and tu	itio

1		
	Appointments	5
1	The inductor's ten jobs marketalage	

Employment Services Index 6	0
Assistance for aerospace professionals i	n
employment and career development	