AVIATION WEEK SPACE TECHNOLOGY

- A PUBLICATION OF THE McGRAW-HILL COMPANIES • \$5.00 · SEPTEMBER 1, 1997

Military Space

Coming Of Age

Asian Airlines
Turning To Info Tech

PAGE 58

AVIATION About the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-On s in late Occ ocean water vapord directly and the U.S. A Follow-Oc

32

About the Cover

The U.S. Navy/Ball Aerospace Geosat Follow-On satellite, scheduled for launch in late October, will measure average ocean wave height and atmospheric water vapor levels, then transmit data directly to ships at sea (see p. 46).

Ball Aerospace & Technologies Corp. painting by B. Scott Kahler.



NRO radar, sigint launches readied

Set with Air Force to launch two of the U.S.' most advanced intelligence spacecraft

Titan motor fixes speed NRO launches

Program and contractors recovering from generic problem discovered in the thrust vector control systems 24

Mir external EVA prepared as partial power restored

One objective will be to inspect Spektr exterior for punctures

LMLV-1 gives good delivery to orbit

Flight goes a long way toward restoring the rocket's reputation

ACE Delta sets record pace despite 'fishing boat' delay

Mission to study the chemical makeup of particles from the Sun and other sources in the galaxy 30

TRW scrambles to save satellite

Lewis remote-sensing demonstration satellite goes into spin, loses power two days after it was orbited 31

Second rock type sampled at rover landing site

Recent rock measurements on Mars surface support what was a surprising finding early in mission 32

Altus reaches 43,500 ft.

Tests of drone's high-altitude performance, handling while carrying 300-lb. simulated payload 3

Vympel to export upgraded missiles

Reveals details of ramjet-powered version of its RVV-AE long-range missile with active radar guidance 36

Sukhoi schedules S-32 maiden flight

27

Equipped with forward canards and has forward swept-wing design and twin D-30F6 engines

http://www.awgnet.com

Aviation Week's Web site offers selected articles from the current issue, as well as daily news updates, the Safety Resource Center, a gallery of photos and features from special issues. It's also a great jumping off spot for surfing to other aerospace sites. We're available on CompuServe, too; just GO AWG.

AIR TRANSPORT

Old issues stirred in U.S.-Japan talks

While U.S. negotiators seek 'open skies,' Japanese look for wider access to U.S. and Latin America 37

Shortened-fuselage A330 undergoes flight testing FAA and IAA certification

FAA and JAA certification planned for March, 1998

Global safety effort urged Push for 'one level of safety' in

Push for one level of safety in aviation must be an international program, ALPA forum is told

American seeks cargo alliances In Europe and Latin America.

In Europe and Latin America, in wake of rising traffic demand 39

AIR strengthens links with China

ATR 72 is key part of Xinjiang Airlines' plan to modernize fleet

Pratt/Snecma engine to power AIR twinjets

All-new 13,000-15,000-lb.-thrust SPW14 for 58-84-seat aircraft

Dragonair expands fleet

New leasing and buying contracts foresee carrier doubling its Airbus fleet during the next four years









SAS Commuter acquiring Dash 8Q-400s, more 2000s

Airline's procurement represents Bombardier's largest single order for the Dash 8 version

Russians propose new polar routes

Could save 3 hr. of flight time, gain overflight revenue for Russia 42

CAE logs orders for 37 simulators

American and Delta among customers preparing for delivery of new Boeing transports 4

MILITARY SPACE

'Milspace' maturing into warfighter roles

Military space ops continue to transition to an integrated combat force approach

Launch upgrades key to milspace evolution

Space architect assessing use of space assets if satellites could be launched 'on demand' in days or weeks 48

46

Space Warfare Center aims to be 'Nellis of space'

Tasks range from exploring merits of futuristic ideas to developing quickreaction space-related systems 49

USAF space battlelab assessing new concepts

Its conclusions could lead to dramatic changes in both air and space operations

Strike 2 demonstrates feasibility of RTIC

Highlights need to make high-datarate communication channels available to target mobile weapons 52

Operators place high value on space weather forecasting

Alerts allow spacecraft controllers to turn sensors away from the Sun, shut down vulnerable subsystems 54

Army, Navy space resources focus on tactical support

Concentrate on providing equipment and techniques that add value to warfighter operations 50

INFORMATION TECHNOLOGY

Sabre finds rich IT market in China

Tapped by China Southern to help realign management of its flights, crews and aircraft operations

58

DEPARTMENTS

51

Correspondence	8
Who's Where	
Market Focus	13
Industry Outlook	15
Airline Outlook	17
News Breaks	18-19
Washington Outlook	21
Classified	59
Contact Us	63
Aerospace Calendar	64

EDITORIAL

Playing hooky from lessons	
of Flight 592	66