

AVIATION WEEK

& SPACE TECHNOLOGY



Digital Extras Tap this icon in articles in the digital edition of *AW&ST* for exclusive features. If you have not signed up to receive your digital subscription, go to ow.ly/AkXJo

- 10 Feedback
- 12 Who's Where
- 13-16 First Take
- 18 Up Front
- 19 Going Concerns
- 20 Inside Business Aviation
- 22 Airline Intel
- 24 Leading Edge
- 26 Commander's Intent
- 27 In Orbit
- 28 Washington Outlook
- 67 Classified
- 68 Contact Us
- 69 Aerospace Calendar

PARIS AIR SHOW

- 30 **OneWeb partnership** with Airbus establishes the French satellite maker as a U.S. manufacturer
- 31 **Airbus A380 may** grow larger, with a stretch and new engines to keep unit costs competitive
- 34 **Bombardier expects** upswing in C Series orders following debuts of aircraft at Paris Air Show
- 36 **New engines will** be needed for next middle-of-the-market aircraft, but requirements are far from obvious
- 37 **Airbus's bold plans** for X6 launch race to design and market next generation of heavy helicopters
- 38 **Bids for Sikorsky** point toward helo sector consolidation but spin-off looks likely due to sale hurdles



66

Northrop Grumman's unveiling of the first of five Global Hawk intended for NATO's Alliance Ground Surveillance (AGS) may improve the UAV's sales prospects in Europe. But first, Northrop faces the tasks of flight-testing and integration of the AGS air

- 39 **Lockheed Martin says** 'blueprint for affordability' yielding F-35 cost savings earlier than expected

COMMERCIAL AVIATION

- 40 **EPA emissions** ruling is a key step toward establishing a CO₂ standard for aviation
- 42 **AFRL updates its** unmanned-aircraft sense-and-avoid system and demos its portability
- 47 **Emirates attacks** 'antitrust-immunized' alliances in ongoing airline subsidies dispute
- 48 **Lufthansa decision** to charge for booking via GDS could alter airline ticketing globally
- 50 **Boeing reveals its** next-generation middle-of-the-market 757 replacement strategy

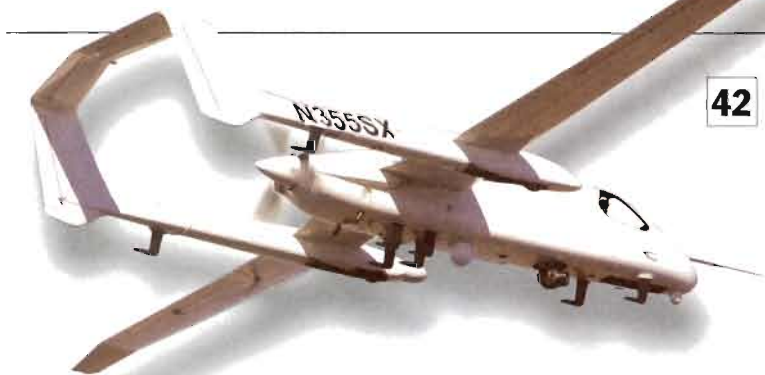
TECHNOLOGY

- 50 **As ecoDemonstrator** program winds down, Boeing studies options for what might follow

SPACE

- 43 **Philae probe's** unlikely landing place in shadow on comet could lead to better science return
- 44 **Spaceflight Industries** says BlackSky Global plans to launch Earth imagery almost hourly
- 46 **Mexico's commercial** lunar payload attempt could open new market
- 52 **Airbus tackles** rocket motor plan to compete with reusable recoverable core stages





AEROSPACE IN TURKEY

- 54 Turkey partners with Sierra Nevada Corp.** to develop domestic airline
- 55 New technology, domestic capabilities** key to country's plan to modernize its air arm
- 56 International help sought** to help Turkey achieve goal of producing an indigenous fighter
- 57 Lure of UAV** development beckons, but some analysts are skeptical of Turkey's ability

AIRPORT TECHNOLOGIES

- 58 Remote ATC towers** gain wider acceptance throughout Europe, but U.S. remains wary
- 61 Industry weighs** benefits of satellite-based landing systems against cost, logistical realities

- 64 Airport beacon technology** goes mainstream; SITA readies for boom in beacon applications

DEFENSE

- 65 South Korea's new** version of its Hyunmu 2 tactical ballistic missile now flies farther, tests reveal
- 66 First Global Hawk** for NATO is unveiled as Northrop Grumman eyes international sales

EDITORIALS

- 70 Airline industry must** be pushed to cut aircraft emissions through EPA public comment process
- 70 Extend Ex-Im Bank** charter and then reform the way it works to preserve U.S. competitiveness