

## ***FORECAST OF UPCOMING ANNIVERSARIES -- JULY 2011***

### **50 Years Ago - 1961**

July 7: Discoverer 26 launched by Thor Agena, 7:32 p.m., EDT, Vandenberg AFB, CA.

July 12: Tiros 3 launched by Thor Delta, 6:25 a.m., EDT, Cape Canaveral, Fla.

July 12: Midas 3 launched by Atlas, 8:12 a.m., PDT, Vandenberg AFB, CA.

July 21: Mercury-Redstone 4 (MR-4) named Liberty Bell 7, Virgil I. "Gus" Grissom, second suborbital flight for the U.S., 8:20 a.m., EDT, Cape Canaveral, Fla. Space capsule sank in Atlantic after successful landing.

### **45 Years Ago - 1966**

July 1: Explorer 33 launched by Delta, 12:02 p.m., EDT, Cape Canaveral, Fla.

July 5: Saturn rocket (SA-203) launched, orbital test, 9:53 a.m., EST, Cape Canaveral, Fla.

July 6: Proton 3 launched, 1258 UTC, Baikonur, USSR.

July 12: First M2-F2 flight, pilot Milton Thompson, DFRF, CA.

July 18: Gemini 10 (GTA-10 Gemini Titan) launched, with crew composed of John W. Young and Michael Collins, from Cape Canaveral, Fla, 5:20 p.m., EST. First dual rendezvous (Gemini 10 with Agena 10, then Agena 8).

### **40 years Ago - 1971**

July 8: Solrad 10 (Explorer 44) launched by Scout, 6:58 p.m., EDT, Wallops, VA.

July 26: Apollo 15 launched with crew of David R. Scott, James B. Irwin, and Alfred M. Worden, carried lunar rover as payload, also infamous postal covers. Took off from Kennedy Space Center, 9:34 a.m., EDT. Also launched The Apollo 15 subsatellite (PFS-1) into lunar orbit.

### **35 Years Ago - 1976**

July 1: The National Air and Space Museum, Smithsonian Institution, Washington, DC, officially opens to the public.

July 8: Palapa 1 launched by Delta, 7:31 p.m. EDT, Cape Canaveral, Fla.

July 20: Viking 1 lands on Mars, becoming the first successful operational spacecraft to land there, 5:12 a.m.,PDT.

### **30 Years Ago - 1981**

July 10: James M. Beggs took office as sixth NASA Administrator.

### **35 Years Ago – 1991**

July 15: Research pilot Edward Schneider flew the F/A–18 High Angle-of-Attach Research Vehicle (HARV), with thrust-vectoring paddles, for repair and reboost.

### **15 Years Ago – 1996**

July 2: TOMS-EP (Total Ozone Mapping Spectrometer-Earth Probe) spacecraft launched by a Pegasus XL rocket from an L-1011 airplane over southern California at 00:48 UTC. Intended to complement ADEOS-TOMS to monitor global ozone distribution and measure sulfur dioxide from volcanic activity.

### **10 Years Ago – 2001**

July 12: STS-104 (Space Shuttle *Atlantis*) launched 5:04 a.m. EDT, KSC. Crew: Steven W. Lindsey, Charles O. Hobaugh, Michael L. Gernhardt, James F. Reilly, and Janet L. Kavandi. International Space Station Flight 7A. Delivered the ISS Airlock, and docked with the ISS at 11:08 p.m. EDT on July 13. Landed July 24, 11:39 p.m. EDT, KSC. Mission Duration: 12 days, 18 hours, 36 minutes.

### **5 Years Ago – 2006**

July 4: STS-121 (Space Shuttle *Discovery*) launched 2:38 p.m. EDT, KSC. Crew: Stephanie D. Wilson, Michael E. Fossum, Steven W. Lindsey; commander, Piers J. Sellers; mission specialist, Mark E. Kelly, pilot; Thomas Reiter of Germany with the European Space Agency and Lisa M. Nowak. International Space Station Flight ULF1.1. Completed the return-to-flight objectives by flying an improved external tank and testing on-orbit shuttle repair procedures, and preparing the International Space Station for future assembly. Landed at KSC, July 17 at 9:14 a.m. EDT. Mission Duration: 12 days, 18 hours, 37 minutes.

July 12: Genesis 1, an inflatable test module was launched by a Dnepr rocket (a converted ICBM, known as SS-18 Satan) at 8:53 a.m. EDT from ISC Kosmotras Space and Missile Complex, Russia. This module designed by space tourism company Bigelow Aerospace is the first in a series designed to provide a platform for a space hotel.