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National Aeronautics and
Space Administration

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For Release:

UPON RELEASE OF
PRESIDENT'S BUDGET
MESSAGE, 10:00 A.M.
JANUARY 28, 1980

RELEASE NO. 80-13

BACKGROUND MATERIAL

NASA FY 1981 BUDGET BRIEFING

HOLD FOR RELEASE AT 10:00 A.M., EST, MONDAY, JANUARY 28, 1980

NOTE: This statement relates to the Fiscal Year 1981 Budget and is subject to the same conditions. There should be no premature release of this statement nor should any of its contents be paraphrased or alluded to in earlier stories. There is a total embargo on the Budget until 10:00 A.M., EST, January 28, 1980, which includes any and all references to any material in the Budget Appendix, or supporting statements.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

BUDGET SUMMARY
(Thousands of Dollars)

BUDGET PLAN	FY 1979	FY 1980	FY 1981
Research and development.....	3,477,200	4,107,500[a/]	4,569,500
Construction of facilities...	147,500	156,100	120,000
Research and program management.....	933,808	1,006,186[b/]	1,047,154
TOTAL BUDGET PLAN.....	4,558,508	5,269,786	5,736,654
OUTLAYS.....	4,196,472	5,012,600	5,439,700

a/ Includes proposed supplemental of $300,000,000 for the Space Shuttle.

b/ Includes proposed supplemental of $46,286,000 to cover revised salary rates implemented in October 1979.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

RESEARCH AND DEVELOPMENT PROGRAMS

BUDGET PLAN
(Thousands of Dollars)

Cognizant Office and Program	FY 1979	FY 1980	FY 1981
SPACE TRANSPORTATION SYSTEMS	2,011,600	2,403,300	2,738,200
Space Shuttle	1,638,300	1,886,000[a/]	1,873,000
Space flight operations	299,700	446,600	809,500
Expendable launch vehicles	73,600	70,700	55,700
SPACE SCIENCE	505,400	600,800	668,000
Physics and astronomy	282,900	337,100	438,700
Planetary exploration	182,400	219,900	179,600
Life sciences	40,100	43,800	49,700
SPACE AND TERRESTRIAL APPLICATIONS	283,900	343,900	394,800
Space applications	274,800	331,800	381,700
Technology utilization	9,100	12,100	13,100
AERONAUTICS AND SPACE TECHNOLOGY	376,400	427,100	409,500
Aeronautical research and technology	264,100	308,300	290,300
Space research and technology	107,300	115,800	115,200
Energy technology	5,000	3,000	4,000
SPACE TRACKING AND DATA SYSTEMS	299,900	332,400	359,000
TOTAL	3,477,200	4,107,500	4,569,500

a/ Includes proposed supplemental of $300,000,000 for the Space Shuttle.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

SPACE TRANSPORTATION SYSTEMS

BUDGET PLAN
(Thousands of Dollars)

	FY 1979	FY 1980	FY 1981
SPACE SHUTTLE	1,638,300	1,886,000[a/]	1,873,000
Design, development, test and evaluation	(1,270,300)	(1,030,500)	(683,000)
Orbiter	727,800	560,900	320,900
Main engine	172,700	140,600	145,700
External tanks	104,800	79,400	48,000
Solid rocket boosters	115,400	61,200	14,000
Launch and landing	149,600	188,400	154,400
Changes/systems upgrading	(---)	(100,000)	(150,000)
Production	(368,000)	(755,500)	(1,040,000)
Orbiter	264,500	572,600	768,200
Main engine	75,500	123,600	121,500
Launch and landing	7,000	16,400	40,400
Spares and equipment	21,000	42,900	109,900
SPACE FLIGHT OPERATIONS	299,700	446,600	809,500
Space transportation system operations capability development	64,500	54,100	89,000
Spacelab	26,700	58,800	151,700
Space transportation system operations	24,300	148,100	374,500
Development, test and mission support	177,200	172,600	183,500
Advanced programs	7,000	13,000	10,800
EXPENDABLE LAUNCH VEHICLES	73,600	70,700	55,700
Scout	10,600	5,100	2,200
Centaur	17,300	18,300	5,600
Delta	45,700	46,100	47,900
Atlas-F	---	1,200	---
TOTAL SPACE TRANSPORTATION SYSTEMS	2,011,600	2,403,300	2,738,200

a/ Includes proposed supplemental of $300,000,000.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

SPACE SCIENCE

BUDGET PLAN
(Thousands of Dollars)

	FY 1979	FY 1980	FY 1981
PHYSICS AND ASTRONOMY	282,900	337,100	438,700
High energy astronomy observatories development	10,647	2,100	---
Solar maximum mission development	16,700	3,100	---
Space telescope development	79,200	112,700	119,300
International solar polar mission development	12,500	47,900	82,600
Gamma ray observatory development	---	---	19,100
Shuttle/Spacelab payload development and mission management	34,900	40,900	72,100
Explorer development	31,288	32,300	33,000
Mission operations and data analysis	25,453	37,100	38,900
Research and analysis	44,005	34,100	42,800
Suborbital programs	28,207	26,900	30,900
PLANETARY EXPLORATION	182,400	219,900	179,600
Galileo development	78,700	116,100	63,100
Mission operations and data analysis	59,300	58,800	64,800
Research and analysis	44,400	45,000	51,700
LIFE SCIENCES	40,100	43,800	49,700
Life sciences flight experiments	15,700	16,600	19,200
Research and analysis	24,400	27,200	30,500
TOTAL SPACE SCIENCE	505,400	600,800	668,000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

SPACE AND TERRESTRIAL APPLICATIONS

BUDGET PLAN
(Thousands of Dollars)

	FY 1979	FY 1980	FY 1981
SPACE APPLICATIONS	274,800	331,800	381,700
RESOURCE OBSERVATIONS	139,400	145,203	162,300
Landsat-D	97,500	98,663	64,300
Operational land observing system	---	---	16,000
Magnetic field satellite	3,900	1,600	500
AgRISTARS	---	16,000	33,200
Shuttle/Spacelab payload development	6,200	1,850	2,000
Applied research and data analysis and related activities	30,800	27,090	46,300
Completed projects	1,000	---	---
ENVIRONMENTAL OBSERVATIONS	67,750	109,470	137,600
Earth radiation budget experiment	7,000	17,000	29,000
Halogen occulation experiment	3,600	8,000	6,000
National oceanic satellite system	---	---	5,800
Shuttle/Spacelab payload development	7,750	9,600	8,200
Advanced research and data analysis and related activities	41,076	74,370	88,600
Completed projects	8,324	500	---
APPLICATIONS SYSTEMS	13,950	24,547	18,100
TECHNOLOGY TRANSFER	10,700	10,087	12,500
MATERIALS PROCESSING IN SPACE	20,400	19,768	22,200
Space processing applications rocket project	3,600	2,100	---
Shuttle/Spacelab payload development	11,950	11,218	10,500
Applied research and data analysis	4,850	6,450	11,700
SPACE COMMUNICATIONS	22,600	22,725	29,000
Search and rescue	8,000	5,000	2,300
Shuttle/Spacelab payload development	1,200	1,660	---
Applied research and data analysis and related activities	13,400	16,065	26,700
TECHNOLOGY UTILIZATION	9,100	12,100	13,100
TOTAL SPACE AND TERRESTRIAL APPLICATIONS	283,900	343,900	394,800

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

AERONAUTICS AND SPACE TECHNOLOGY

BUDGET PLAN
(Thousands of Dollars)

	FY 1979	FY 1980	FY 1981
AERONAUTICAL RESEARCH AND TECHNOLOGY	264,100	308,300	290,300
Research and technology base.....	109,700	119,000	131,100
Systems technology programs.....	154,400	189,300	159,200
(Aircraft energy efficiency technology included in systems technology).....	(97,400)	(116,100)	(85,000)
SPACE RESEARCH AND TECHNOLOGY	107,300	115,800	115,200
Research and technology base.....	86,277	99,785	103,400
Systems technology programs.....	12,023	11,015	9,700
Standards and practices.....	9,000	5,000	2,100
ENERGY TECHNOLOGY	5,000	3,000	4,000
TOTAL AERONAUTICS AND SPACE TECHNOLOGY.....	376,400	427,100	409,500

SPACE TRACKING AND DATA SYSTEMS

TRACKING AND DATA ACQUISITION	299,900	332,400	359,000
Operations.....	249,903	264,500	271,500
Systems implementation.....	40,497	57,300	76,200
Advanced systems.....	9,500	10,600	11,300

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

FISCAL YEAR 1981 CONSTRUCTION OF FACILITIES PROGRAM

BUDGET PLAN
(Thousands of Dollars)

PROJECTS BY INSTALLATION

Ames Research Center	13,180
Construction of Man-Vehicle Systems Research Facility	7,480
Modification of Steam Ejector System and Thermal Protection Laboratory (N-234)	2,300
Modification of the Unitary Plan Wind Tunnel (N-227)	3,400
Jet Propulsion Laboratory	3,500
Modifications to Various Buildings for Energy Conservation	1,500
Modifications to Various Buildings for Seismic Protection	2,000
John F. Kennedy Space Center	760
Rehabilitation of High Temperature Hot Water System, Zone 2, Industrial Area	760
Langley Research Center	22,756
Modifications for Avionics Integration Research Laboratory (1220)	5,756
Modifications to Aircraft Landing Dynamics Facility (1257)	15,000
Rehabilitation and Modification of Gas Dynamics Laboratory (1247)	2,000
Lewis Research Center	12,355
Decommissioning of Plum Brook Station Reactor Facility	3,000
Modifications to Central Air System, Various Buildings	7,655
Rehabilitation of Electrical Switchgear, Engine Research Building 5	1,700
Michoud Assembly Facility	4,582
Rehabilitation of Roof, Phase II, Building 103	3,800
Rehabilitation of Chilled Water System	782
Various Locations	2,150
Modification of 26-Meter Antenna, DSS-44, Canberra, Australia (JPL)	1,200
Replacement of Azimuth Radial Bearing, DSS-14, Goldstone, CA (JPL)	950
Space Shuttle Facilities at Various Locations as Follows:	10,100
Modification of Manufacturing and Final Assembly Facilities for External Tanks (MAF)	5,400
Modifications to Solid Rocket Motor Manufacturing and Assembly Facilities, Thiokol Plant, Wasatch, Utah	2,700
Minor Shuttle-Unique Projects (Various Locations)	2,000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

FISCAL YEAR 1981 CONSTRUCTION OF FACILITIES PROGRAM

BUDGET PLAN
(Thousands of Dollars)

PROJECTS BY INSTALLATION

Space Shuttle Payload Facilities at Various Locations as Follows:	1,617
Rehabilitation and Modification for Payload Ground Support Operations (KSC)	1,617
Repair of Facilities at Various Locations, Not in Excess of $500,000 per Project	15,000
Rehabilitation and Modification of Facilities at Various Locations, Not in Excess of $500,000 per Project	20,000
Minor Construction of New Facilities and Additions to Existing Facilities at Various Locations, Not in Excess of $250,000 per Project	4,000
Facility Planning and Design	10,000
TOTAL	120,000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

RESEARCH AND PROGRAM MANAGEMENT

BUDGET PLAN
(Thousands of Dollars)

INSTALLATION	FY 1979	FY 1980	FY 1981
Johnson Space Center	152,930	162,881	170,688
Kennedy Space Center	123,314	131,861	141,385
Marshall Space Flight Center	149,007	157,599	160,377
National Space Technology Laboratories	4,488	4,899	5,108
Goddard Space Flight Center	127,910	135,805	139,335
Wallops Flight Center	15,806	17,085	18,977
Ames Research Center	62,712	69,801	71,469
Dryden Flight Research Center	19,068	21,702	21,681
Langley Research Center	106,643	116,040	119,145
Lewis Research Center	87,457	97,825	101,360
NASA Headquarters	84,473	90,688	97,629
TOTAL	933,808	1,006,186[a/]	1,047,154

a/ Includes proposed supplemental of $46,286,000 to cover revised salary rates implemented in October 1979.

TOTAL NUMBER OF PERMANENT POSITIONS - END OF YEAR

Johnson Space Center	3,504	3,469	3,494
Kennedy Space Center	2,193	2,191	2,201
Marshall Space Flight Center	3,636	3,561	3,561
National Space Technology Laboratories	104	103	103
Goddard Space Flight Center	3,482	3,440	3,440
Wallops Flight Center	398	395	395
Ames Research Center	1,666	1,658	1,658
Dryden Flight Research Center	480	461	461
Langley Research Center	3,005	2,980	2,980
Lewis Research Center	2,858	2,835	2,835
NASA Headquarters	1,505	1,520	1,585
TOTAL	22,831	22,613	22,713