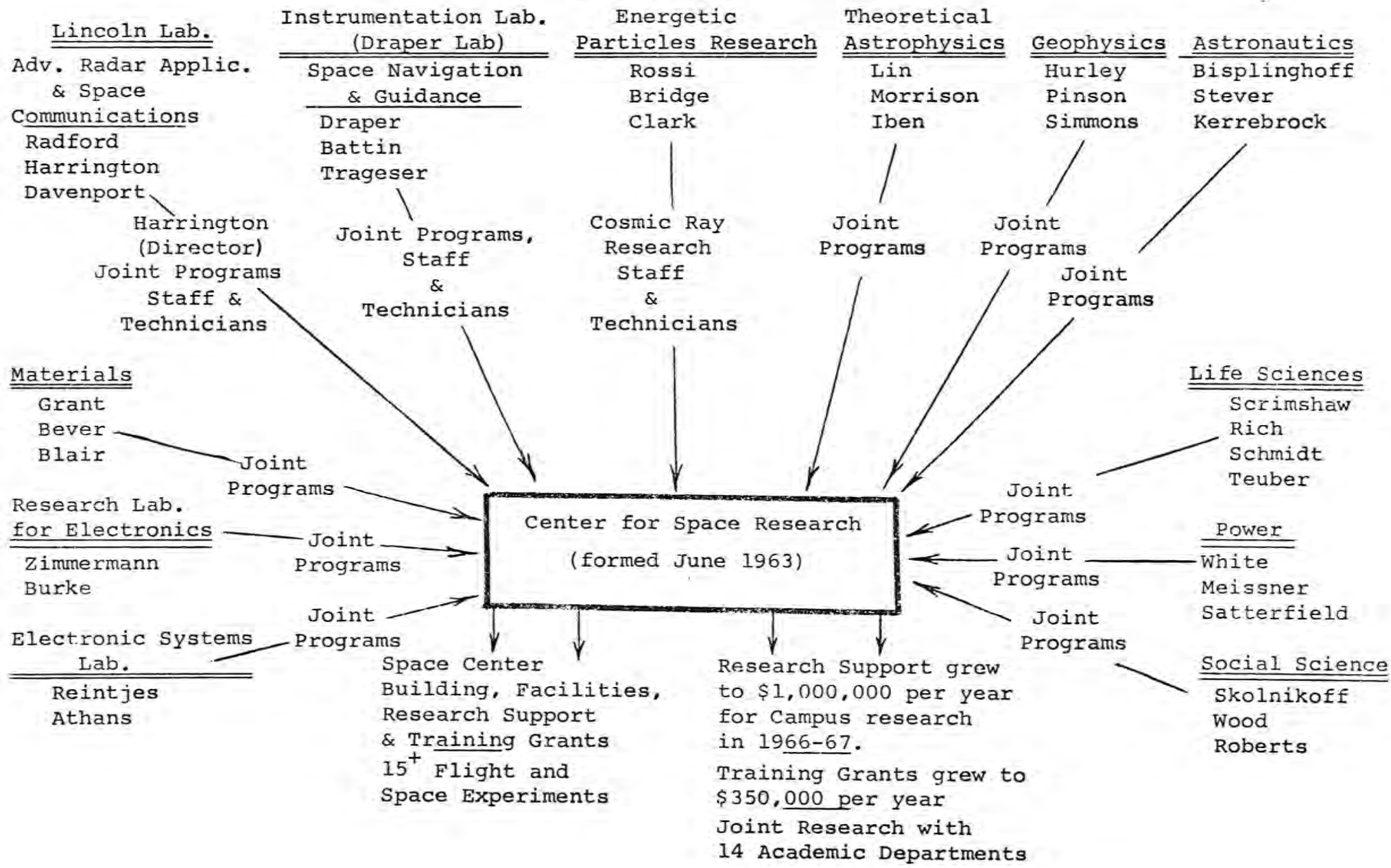


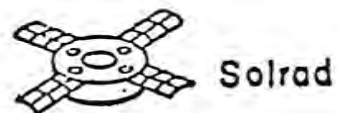
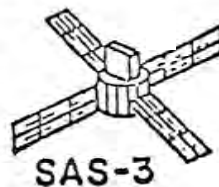
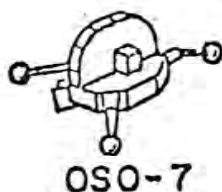
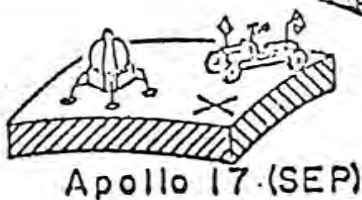
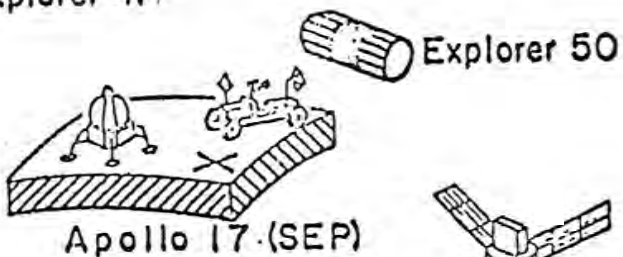
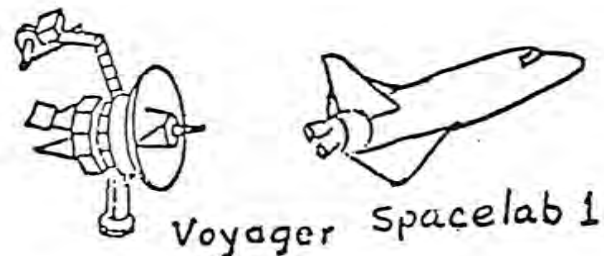
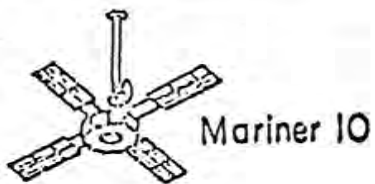
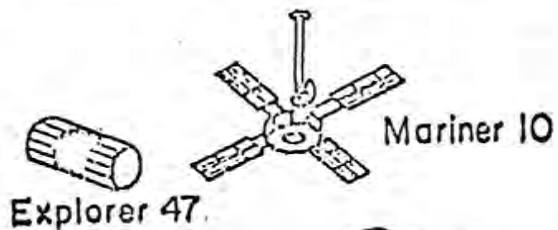
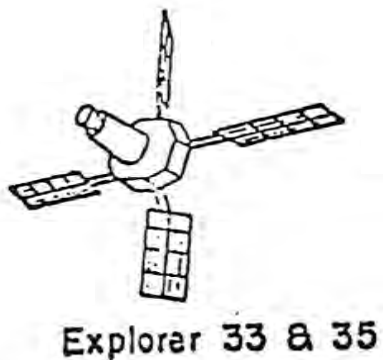
Dec 1977

M.I.T. Space Research Contributing
to Formation of Center for Space Research

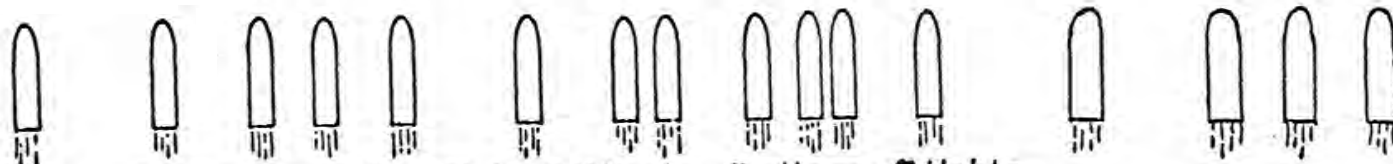
in June 1963



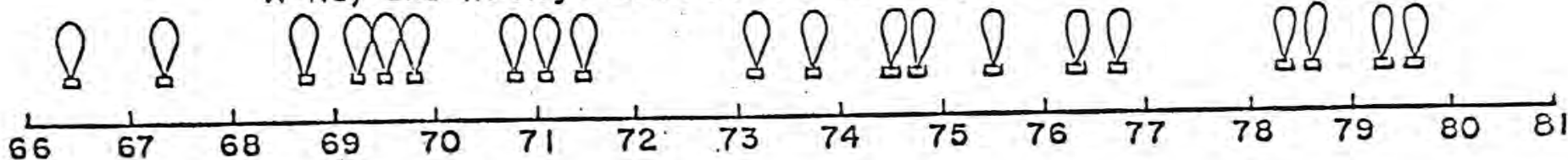
CENTER FOR SPACE RESEARCH SPACE MISSIONS



X-Ray Sounding Rocket Flights



X-Ray and IR High Altitude Balloon Flights



Center for Space Research
Recent Financial Operations
(\$1,000)

	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78
Total Center Operations	\$3,200 ⁽¹⁾	\$4,800 ⁽¹⁾	\$5,500 ⁽¹⁾	\$4,800	\$4,200	\$4,200	\$3,520	\$4,100
Lab. for Space Exper. Oper.	\$2,205	\$3,093	\$3,800	\$2,700	\$2,200	\$1,945	\$1,172	\$ 704

(1) Raytheon \$5.2 million Subcontract for SEP Experimental hardware on Apollo 17 removed

NASA-019 Sust. Univ. Grant	\$ 375	\$ 225	\$ 75	--	--	--	--	--
NASA-638 Basic Res. Grant ⁽²⁾	--	\$ 20	\$ 120	\$ 200	\$ 200	\$ 250	\$ 250	\$ 250
Total Basic Res. Support	\$ 375	\$ 245	\$ 195	\$ 200	\$ 200	\$ 250	\$ 250	\$ 250

(2) Grant step-funded with amendment currently in process @ NASA

Center for Space Res. Personnel	68	78	110	115	100	92	75	60
Academic Staff Assoc'd with CSR	22	24	31	35	26	24	22	24
Total Personnel ⁽³⁾	90	102	141	150	126	116	97	84

(3) Students excluded

TABLE 1
Center for Space Research
Space Missions

<u>Project</u>	<u>MIT Project Nos.</u>	<u>Start</u>	<u>Launch</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
Explorer 33	79327	1/62	/66	Hdw	Data													
Explorer 35	75306	9/64	/67	Hdw	Data	Data	Data											
OSO-7	70669	7/67	9/71		Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Data	Data	Data						
Explorer 47	71091	5/68	10/72			Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Data	Data	Data	Data	Data			
Explorer 50	71091	5/68	11/73			Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Data	Data	Data	Data			
Apollo 17 (SEP)	73070	2/71	12/72						Hdw.	Hdw.	Data	Data						
Mariner 10	73320	5/71	11/73						Hdw.	Hdw.	Hdw.	Data	Data	Data				
ANS	73005	4/70	8/74							(Hdw. consultations only)Data								
SAS-3	72118 & 73425	1/70	5/75					Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Data	Data	Data		
Solrad	80320	4/72	2/76							Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Data			
HEAO-A	80140 & 80145	2/71	8/77							(Hdw. consultations only) Data	Data	
Voyager	81005	12/73	8/77								Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Data	Data	
HEAO-B	81930	6/74	mid 1978								Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Hdw.	Data	Data
Spacelab 1	85078	4/77	mid 1980													Hdw.	Hdw.	Hdw.
No. Projects under Hardware (Hdw.) Development				2	1	3	3	4	6	6	4	4	4	3	2	2	1	1
Lab for Space Experiments Professionals*				14	19	20	20	20	22	38	39	27	26	22	11			
Lab for Space Experiments Techs and Draftsmen				19	22	19	22	15	23	26	21	23	19	10	4			

*Engineers and Others.