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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER	25X

basic imagery interpretation report

Activity and Developments at Selected Soviet Space Research Institutes (S)

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Chemical Physics Academy of Science				_				J
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Construction at Sh Moskva Scientific I indicated that the S their space program the capability of th program. Moskva It Soviet's unmanned s	chelkovo Research oviets are . A new, is installa astitute fo apace flight, theoretic	escribes recent devel Cosmonaut Training Institute NII Bolshe increasing their caps probable neutral bo tion to support train r Space Research 1K at programs. The Mo cal research into pro- ulsion systems.	Facility, vo 4, and abilities in I uyancy test ning and re I directs moskya Instit	Moskva Moskva basic rest/training esearch such of ute of (a Space a Scienti search wig facility for the the rese Chemical	Research Faci ific Research I hich has direct at Shchelkove Soviet's manne arch and devel Physics Acade	ility Tomilino, Institute NII-1 application to be will enhance and space flight opment of the any of Science	*
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research in support laboratory environm particular institute.	of the S ent, colla The large	ations (Figure 1) dis oviet space program teral sources were 1 amount of new floo is are expanding their	Because in relied upon rspace add	nuch o to ide ed to th	f this re ntify the nese insta	search was car mission or p allations during	ried out in a programs of a	
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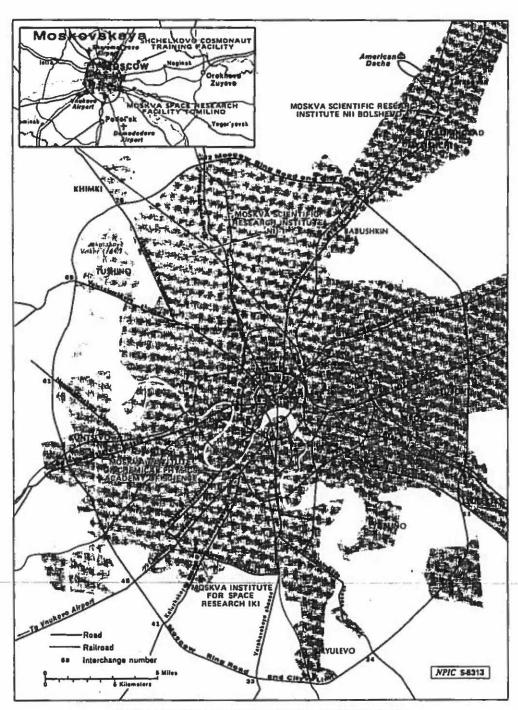


FIGURE 1. LOCATIONS OF SELECTED SOVIET SPACE RESEARCH INSTITUTES

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Institute for Space Research IKI, period was determined by the deach installation are listed below.	ate that the installation			
Installation	Reporting Period			
Shchelkovo Tomilino Bolshevo 4 NII-1 IKI Chemical Physics				25X1
Shchelkovo Cosmonaut Trai	ning Facility			
6. (TSR) The Shchelkovo ing Facility is 18 nautical mile the Kremlin, adjacent to the	Cosmonaut Train- s (nm) northeast of Moscow/Shchelkovo elkovo is the prima- posmonauts and con- area and a training also known as the ppen facilities in the sisted by US astro- wspaper and maga- s and their families apport area contains which (items 16 and still under construc- tem 19); an interme- cercation, entertain- items 4, 8, and 23) ort personnel, and ntains a reception/-	Soyuz mission in 196 rather simple and em ing. Yuri Gagarin, the less than a month's travery little simulated. This training probably As the manned spacenew and better equip centrifuge section (iter October 1972 and Apr Soviet capabilities in probable Salyut simul major improvement, a probable neutral bou added a simulation te Shchelkovo. 10. (TSR) Two reen observed recently area are probably interesting the simulation of the short of the same and the simulation terms of the same are probably interesting.	ed. Prior to the first manned of the cosmonaut training was phasized physical conditionne first cosmonaut, received ining in a centrifuge and had training before the flight. Took place at Shehelkovo, a flight program continued, ment was added. The large m 73d) constructed between it 1975 greatly advanced the this type of training. The lator (item 81) was also a and the construction of the ayancy test/training facility echnique not used before at the foundations which have in the training and research anded to be used as training anned space flight missions.	25X1
visitors quarters (item 32). The quarters was one of a comple served under construction in m spondent for a US magazine.	e probable visitors in of buildings ob- id-1973 by a corre-	One foundation (item with an outer diameter of	83) is a circular excavation	25X1 25X1
quarters was reported to be a "complex, on the shore of a new US astronauts, technicians and port of the joint US-Soviet,	man-made lake, for l officials" in sup- Apollo-Soyuz Test	are approximately new foundation (item	84) is	25X1 25X1
Program. The completed flooring and support area as of	was	new construction.	arch Facility Tomilino	25X1
109,389 square meters with ar meters under construction.	other 9,702 square	201	5/A 7/	05144
search area contains training enties for general space flight of for a specific mission, as well tioning. Facilities available in research area include two centric	orientation, training as physical condi- the training and fuges (items 69 and	ino. approximately 12 The Tomilino facility development, and testi- equipment for flight including space suits, a	Moskva Space Re- tio is in the suburb of Tomil- tinm southeast of Moscow. is responsible for research, and of life-support and safety personnel and cosmonauts, antigravity suits, and ejection	25X1 25X1
73d), a Soyuz simulator (iter Salyut simulator (item 81), and bouyancy test/training facility cal conditioning and athletic southeast corner of the training and include a soccer field en tennis courts, outdoor baskett probable gymnasium (item 63), the north-central portion of the salyus simulator (item 63).	a probable neutral (item 75).4-5 Physicalities are in the g and research area circled by a track, ball courts, and a A skeet range is in	ments investigating the logical effects of space ings. The principal fathis work at Tomilino man-rated vacuum chi	also been involved in experi- e physiological and psycho- ic conditions on human be- icilities available to support o include a centrifuge and a amber installed during 1962 reported altitude simulation eters. ⁹	£
search area. The training and tains 61,806 square meters of additional 1,970 square meters un	research area con- floorspace with an	floorspace was added	al of 8,117 square meters of to Tomilino (Figure 3 and shed was razed during this	25X1 25X1
9. As t space flight programs have bee the preflight training for these		period, and a shop bui	ilding (item 1), constructed in ility, replaced an administra- i/laboratory space accounted (Continued p. 6)	25X1
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Table I. Buildings and Secureous at Shebulkova Commences: 'valsing Facility (Novan Loyed to Figure 2)

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Table 5.
Buildings and Structures at Moskva lastitute For Space Research 1821 (Green keep to Figure 6)
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Table 4.
Construction of Mackva Scientific Besserch (Items keyed to Figure 5)
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		L	W	H				
1	Research/lab bldg	-	_	-	3.626	Jul 76	Ang 78	1/20 March 1/200
	Lab seet	49	18	46	(8.764)		12.00	breg, everall dimens garen; 3 startes
	Lab sort	40	13	13	(1,374)			tereg; prevell diamons green; 2 stamms
	Support suct	49	4	41	(540)			I storms
2	Senengo bldg	31	6	7	306	-	Fub 78	Complete a hen flow abserved
3	Storage bldg	12		3	14		Jul 76	Complete when first observed
•	Starogs bldg	17	4		102	-	Jul 76	Complete when first observed
5	Sureçe bldg	12	5		13	-	2 ut 76	Complete whom first shoured
•	Prob propellent heading 3Mg	-	-	-	318	Age 27	Jun 72	
	Support such	9		9	(34)			
b	Operations each	18	9	- 7	[270)			2 storest
:	Support and				(34)			
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1	Bosseth/operations bldg	403	18	12	116.064	16 stories
2	Prob computer bldg	21	21	13	845	
3	Prob computer bldg	21	21	11	441	
4	Prob computer bldg	21	21	13	641	
5	Proti computer bldg	21	21	12	114	
4	Support bldg	10	6	4	40	
7	Support bldg	13	3	3	40	
4	Support bidg	10	4		40	
,	Support blig	32	13	4	339	fireg; overall discuss given
10	Storage bldg	4	4	1	16	
11	Shop bidg	54	19	11	1,339	Southeast half of bldg is 2 stories
12	Storage bldg	20	7	3	140	Southeast half of bidg to I stories
13	Storage bldg	43	,		368	fireg; newall
14	Prob research bidg	33	35	10	3.023	
13	Utility bldg	33	53	11	3.023	
16	Storege bidg	46	13	1	298	
17	Cooling towers	-	-	-		No floorspace alves
18	Storage bldg	14	6	5	64	110000000
19	Storage bldg	31	13	7	403	
10	Storage bldg	10	13		190	
11	Support bldg	13	10		110	
12	Prob research bldg	-	-	***	3,132	
	Shep tool	34	20	10	(080,1)	
8	Labor sect	34	20	10	1010,11	
	Support met	34	18	10	(972)	
TOTAL !	Consumer				-	131 177

Automates in becompanied and and judywhold be alvey Limitabless

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stor US microwave communications and radars. IKI is also reported to have been involved in a classified program to install infrared detectors on Soviet military satellites.9

Moskva Institute of Chemical Physics Academy of Science

24. (TSR) The Moskva Institute of Chemical Physics Academy of Science is on the south bank of the Moskva river in the city of Moscow on both sides of Verobyevshops Shosse (urret). The 39,335 square meters of floorspace at the institute are contained in 15 buildings (Figure 7 and Table 6). Another 10,213 square meters of floorspace will be added when the research/laboratory building cur-

sently under construction (item 16) is complete.

sent) under construction (stem 16) is complete.

25. The Institute of Chemical Physics is reportedly involved in theoretical research into high-energy liquid and solid propellants. Personnel at the institute are involved in combustion studies of perchlorate and natrate compounds including ammonium and potassium perchlorate, ammonium nitrate, and high-energy additives such as RDX and HMX. Investigations into combustion instability and the synthesis of metallic solid-propellant additives are afto being carried out at the institute. These basic research programs will have direct impact on propulsion systems for future space and missile systems. (8)

Fable 6.
Buildings and Structures at Moshon Institute of Chemical Physics Academy of Science (Items keyed to Figure 7)

	Fuerties		Diamake	85	Floorspace	32	– 25×
148	& Retries	£	(m)	н	(og m)	Comments	
	Research/lab bldg				10,728		
4	Research, lab sect	38	18	19	(2,736)	4 stories	
b	Aesearch/lab tect	41	18	15	(2.13))	3 stones; leren	
						overall dimens given	
c	Research/lab sect	54	18	13	(2.835)	3 stories; irreg	
					CONTRACTOR OF THE STATE OF THE	overall dimens given	
ď	Research/lab sect	28	13	15	(1.512)	3 stories	
ę	Research, lab sect	30	18	15	(1.513)	I atories; iereg	
	WOOD CONTRACTOR OF THE STATE OF				10.140	overall dienene given	
	Research/lab bldg Research/lab secc	- 41	1.0	19	10.330	4 stories:	
٠.	MENERICE / 18 D SECE	41	14	14	(2.844)	overall dmens given	
ь	Research/lab sect	81	18	15	(3,699)	J stories; irreg	
	Acsessen/100 sect			13	(3.077)	overall dimens given	
•	Research/lab secs	34	116	35	(2.241)	3 stories; irreg	
	Kentarien/140 Mes	-	1.0		f4.4*11	gverall dimens alven	
d	Research/lab sect	34	15	15	(1,564)	3 stories:	
•	ALIGNATURA STATE			.,	4411,0417	irreg overall dimens given	neve
	Support bldg	_	-	-	211	A. et em ministre Br.gu	25X1
	Support sect	14	7	4	(98)		
Ь	Operations sect	14	7	6	(98)		
6	Toust	5	1		[151		
ř.	Support bldg	-	_	_	397		
8	Loading dock	15	5	4	(75)		
b	Storage sect	23	14	5	(323)		
	Research/lab bldg		_	_	7,606		
8	Research/lab sect	31 m	diam	24	{3,421}	4 stories	
b	Research/lab sect	21	1	4	(216)		
c	Support sect	25	- D	7	(590)	2 stories	
d	Research/lab sect	21	13	19	1941)	3 stories	
	Research/lab sect	30		7	(180)	2 stories	
f	Aesearch/lab sect	27	11	7	[391]	2 stories	
B B	Support sect Research/lab sect	26 28	14	8 7	(729)	2 stories	
n	Storage bidg	211	12	-	(672) 419	2 stories	
	Storage sect	29	7	4	(203)		
ь	Support sect	9	- 1	4	(72)		
c	Support sect	16	4	4	(144)		
	Apariment bldg	61	13	14	2,745	3 stories	
	Lab bide	24	15		720	2 Hories	
	Lab bidg	24	15		720	2 stories	
ŀ	Storage bidg	15	11	4	163		
	Storage bldg	10	8	5	80		
ŀ	Admin/engr bldg	64	12		1,536	2 stories	
	Support bldg	-	-	-	*14		
	Support sect	31	18	6	(558)		
Ь	Support sect	13	12	5	(116)		
	Research/lab bldg	=		_	2.674		
	Research/lab sect	79	13	7	(1.185)	2 stories	
ь	Reseasch/lab sect	33 27	23	11	(462)	J stories	
d	Support sect Research/lab sect	29	14	12	(404)	3 stories 2 stories	
a	Research/lab bldg	13	15	12	270	2 stories	
	Research/lab bldg	14	13	12	(10.213)	Bidg ucon; first	
a	Support Mct		n Im	6	(25)	observed ucon Jun 1973	
6	Research, lab sect	33	16	14	(1,284)	3 stories	
c	Support sect	20	16	3	(220)		
d	Research/lab sect	11	16	14	(1.514)	3 stories	
•	Support sect	20	16	5	(320)	5.577.5	
ŧ	Research, lab sect	23	16	. 14	(1,584)	3 stories	
	Support sect	20	16	5	(320)		
h	Admin sect	21	13	23	(1,092)	4 stories	
1	Research/lab sect	47	18	22	(3,384)	4 stories	
	Noorspace				39,335		

^{*}Numbers or parembers are not included on total floor-space.

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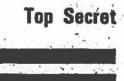
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(S) Comments and queries regarding this report are welcome. They may be directed to Soviet Strategic Forces Division, Imagery Exploitation Group. NPIC	25X1 25X1

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