Wideband Downlink Briefing

Overview of Current and Future Missions in the
8025-8400 MHz Band

Maritime Institute of Technology and
Graduate Studies,
Linthicum Heights, MD

July 16, 2002

Satellite Occupancy [8025-8400 MHz]

satellite	admin	inclination	apogee	perigee	descendingTime	geoLongitude	biuDate	launchDate	status	CenterFreq	LowerFreq	UpperFreq
ADEOS-II	J	98.6	803	803	10:30		Nov 2002		P	8150 8250	8120 8247	8180 8253
ALOS	J	98.2	692	692	10:30		Jan 2004		P	8180	8029.387	8330.613
AURA	USA	98.2	705	705			Jun 2004		P	8160 8160	8085 8152.5	8235 8167.5
AVSTAR-1	USA					-90	Jun 2005		P	8065 8330 8371	8025 8290 8370.95	8105 8370 8371.05
AVSTAR-2	USA					-160	Jun 2005		P	8065 8330 8371	8025 8290 8370.95	8105 8370 8391.05
ENVISAT	F	98.5	800	800	10:00			3/1/2002	IO	8200	8050	8350
EOS AM (TERRA)	USA	98.2	714	697	10:30			12/18/1999	IO	8212.5 8212.5 8212.5	8062.5 8182.5 8025	8362.5 8242.5 8400
EOS PM (AQUA)	USA	98.2	705	705				5/4/2002	IO	8160 8160	8085 8152.5	8235 8167.5

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EROS-A1	ISR	97.3	480	480				12/6/2000	IO	8150 8250	8106.25 8206.25	8193.75 8293.75
ERS-2	F	98.5	782	782	10:30			4/21/1995	IO	8040 8140	8028 8100	8052 8180
ESSAIM	F	98.1	750	750			Jun 2003		P	8035 8065 8360 8390	8025 8055 8350 8380	8045 8075 8370 8400
FY-3 series	CHN						2004-2015		P	8256	8231	8281
GALEX	USA	28.5	690	690			Aug 2002		P	8190	8162.5	8217.5
HY-1	CHN	98.5	798	798				4/1/2002	IO	8374.4	8349.4	8399.4
ICESAT	USA	94	602	584			Dec 2002		P	8100	8080	8120
IKONOS (USASAT-30B)	USA	98.1	681	681	10:30			9/24/1999	IO	8185 8346.0	8025 8345.968	8345 8346.032

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IRS-1B	IND	99.1	917	890				8/29/1991	IO	8250	8249.75	8250.25
IRS-1C	IND	98.69	817	817	10:30			12/24/1995	IO	8150 8255 8350	8107.5 8254.75 8328.75	8192.5 8255.25 8371.25
IRS-1D	IND	98.6	736	825	10:30			9/29/1997	IO	8150 8255 8350	8107.5 8254.75 8328.75	8192.5 8255.25 8371.25
IRS-P4 (Oceansat-1)	IND	98.3	728	711				5/26/1999	IO	8350	8344	8356
IRS-P5 (Cartosat-1)	IND	97.9	623	623			2004-2004		P	8125.0 8300.0	8072.5 8247.5	8177.5 8352.5
KAISTSAT-4	KOR	98.7	835	815			May 2003		P	8227	8125	8329
KITSAT-3	KOR	98.4	720	720				5/28/1999	IO	8127 8370 8390.5	8126.998 8369.998 8390.498	8127.002 8370.002 8390.502
KOMPSAT-1	KOR	98.3	685	685	10:50			12/21/1999	IO	8072.5 8163.5 8343 8205 8331.5	8027.5 8118.5 8298 8045 8298	8117.5 8208.5 8388 8365 8365

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LANDSAT-7	USA	98.2	705	705	10:00			4/14/1999	IO	8082.5 8212.5 8342.5	8007.5 8132.5 8262.5	8157.5 8292.5 8422.5
MONITOR	RUS	97.5	550	400					P	8207.5	8025	8400
NMP/EO-1	USA	98.2	705	705	10:00			11/21/2000	IO	8225	8172.5	8277.5
NPP	USA	98.7	824	824			Jan 2005		P	8212.5	8025	8400
ORBVIEW (USASAT-30C)	USA	97.3	470	470				4/30/2001	IO	8190	8115	8265
PICASSO	USA	98.1	705	705			April 2004		P	8330	8310	8350
QUICKBIRD	USA	97.2	460	460				10/18/2001	IO	8322.5 8100	8305 8027.9	8340 8032.1
RADARSAT-1A	CAN	81.4	798	798	06:00			11/4/1995	IO	8105 8230	8075 8200	8135 8260

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RADARSAT-2A	CAN	98.6	798	798			Feb 2003		P	8220	8070	8370
RADARSAT-2B	CAN	98.6	789	789			Feb 2004		P	8220	8070	8370
SPOT-1	F	98.7	822	822	10:30			2/22/1986	IO	8353 8307	8300.5 8306.75	8405.5 8307.25
SPOT-2	F	98.7	822	822	10:30			1/21/1990	IO	8353 8307	8300.5 8306.75	8405.5 8307.25
SPOT-3	F	98.7	822	822	10:30			9/26/1993	F	8353 8307	8300.5 8306.75	8405.5 8307.25
SPOT-4	F	98.7	832	832				3/24/1998	IO	8353 8307	8300.5 8306.75	8405.5 8307.25
SPOT-5	F	98.7	822	822				5/4/2002	IO	8353 8307	8300.5 8306.75	8405.5 8307.25
SSIPR-1	RUS	98.5	650	650					IO	8064 8105 8192 8320	8044 8025 8112 8240	8084 8185 8272 8400

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SSIPR-2	RUS	98.5	650	650					IO	8064 8105 8192 8320	8044 8025 8112 8240	8084 8185 8272 8400
TERRASAR	D	98	660	660			Jan 2004		P	8207.5	8025	8400
VCL	USA	65	410	390			Sep 2005		P	8190	8176	8204

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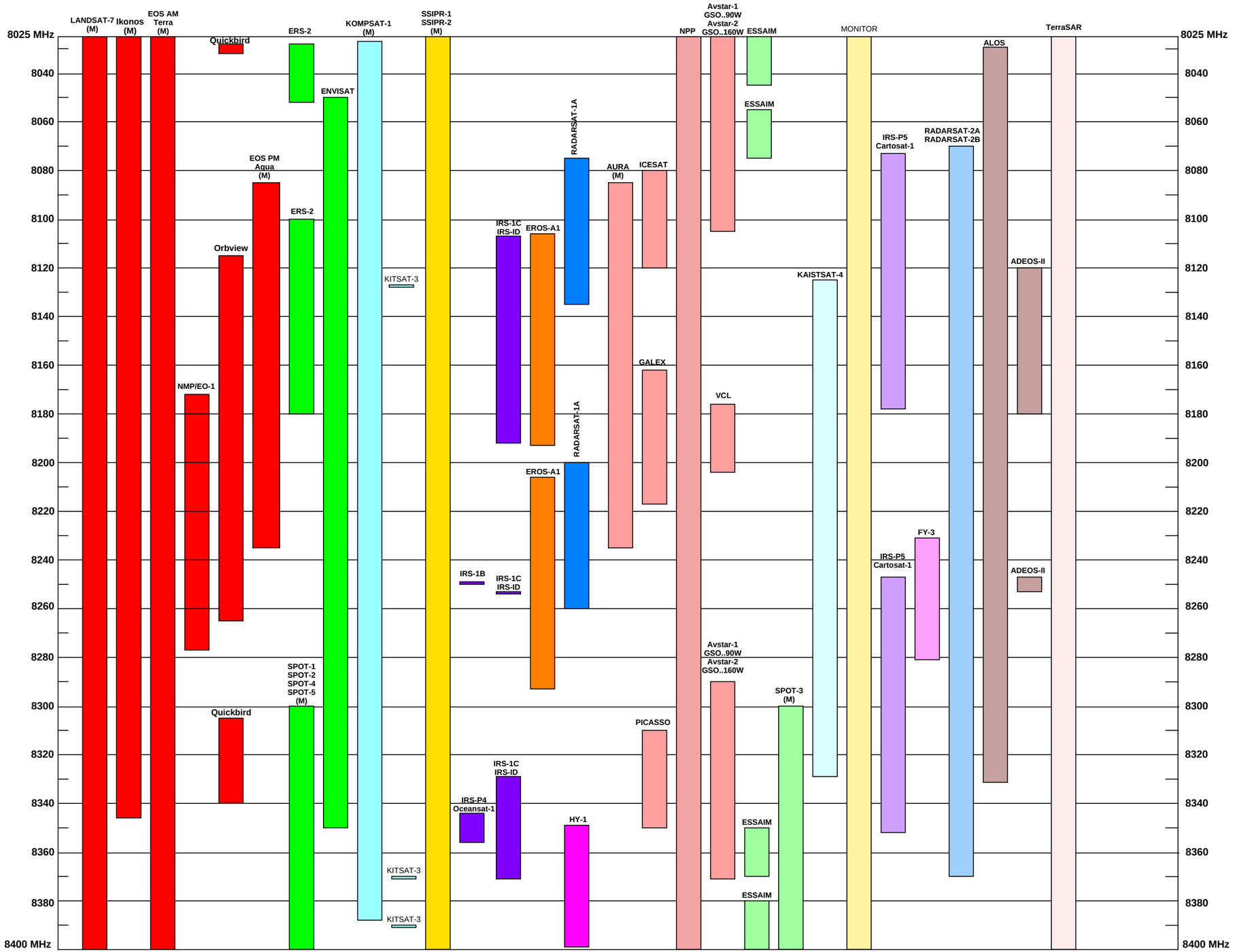
8025 - 8400 MHz EARTH EXPLORATION SATELLITES SPACE-TO-EARTH OPERATIONS



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