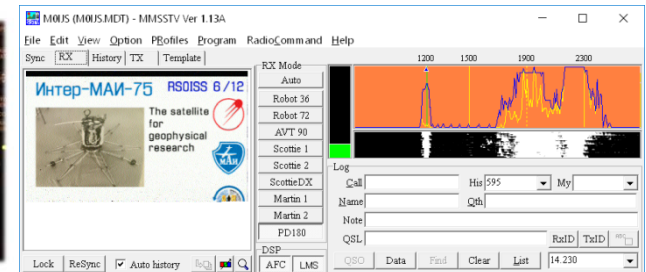


Images from the ISS

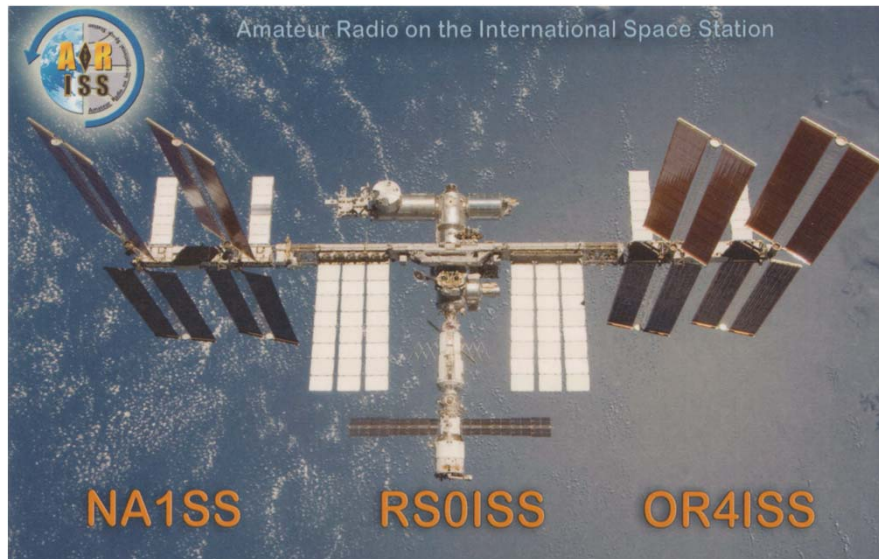


Pre Amplifier

Transverter

Demodulator

Image
Decoder



The International Space Station (ISS) is sponsored by **Canada, Japan, Russia, the USA and many nations in Europe**. ISS crews hail from these and other nations. Major hardware elements are:

- Zarya , Zvezda, Pirs, research modules Poisk and MRM-1 Rassvet built by Russia
- Science lab Destiny, Unity, Quest, Harmony and Tranquility modules provided by the US
- Canadian Mobile Servicing System, a 55-foot mobile robotic arm used for assembly and maintenance
- Columbus module, a science laboratory provided by ESA
- Kibo module, a science laboratory provided by Japan.

ISS crews and visitors often use their Amateur Radio station, first set up in Zarya and then Zvezda, to talk with school students to aid in their education, plus chat with fellow radio amateurs around the world. The ARISS Team continually works to extend ISS Amateur Radio station capability with new operation modes and, more recently, equipment placement in the Columbus module.

To M0JIS					
From	Day	Month	Year	UTC	MHz
☐ NA1SS	13	04	2016	16^h 10	145.800
☐ RS0ISS				17^h 50	
☐ OR4ISS				19^h 20	
Mode : ☐ Voice ☐ Packet ☒ SSTV ☐ APRS ☐ Repeater ☒ SWL					

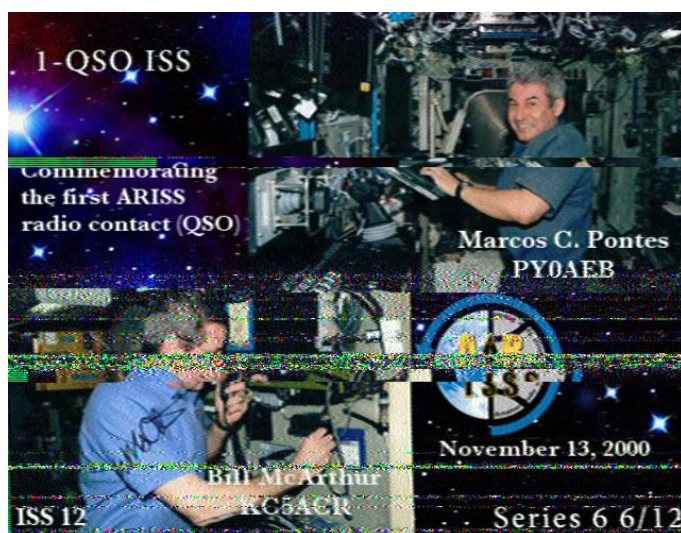
April 2016

Images from the ISS



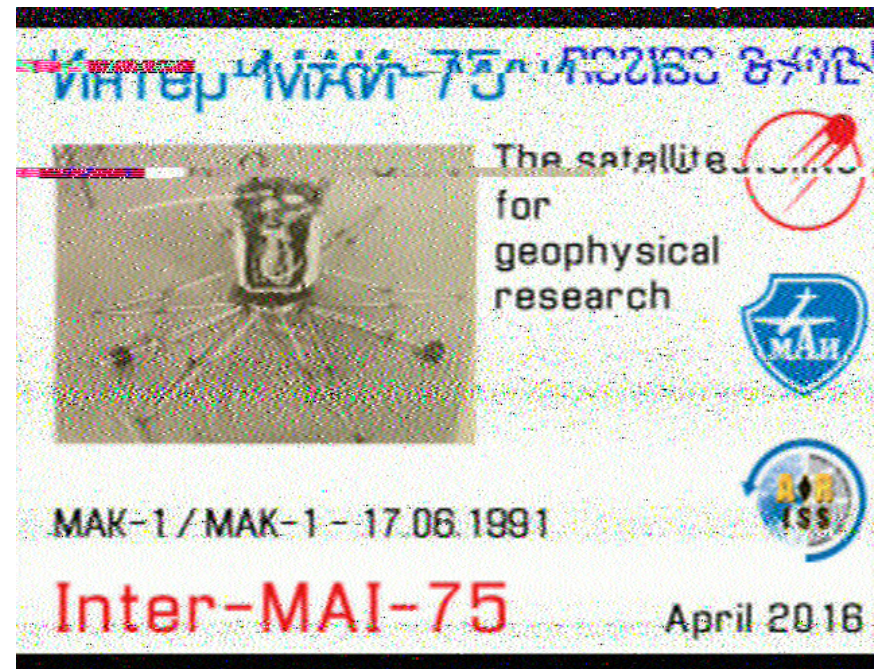
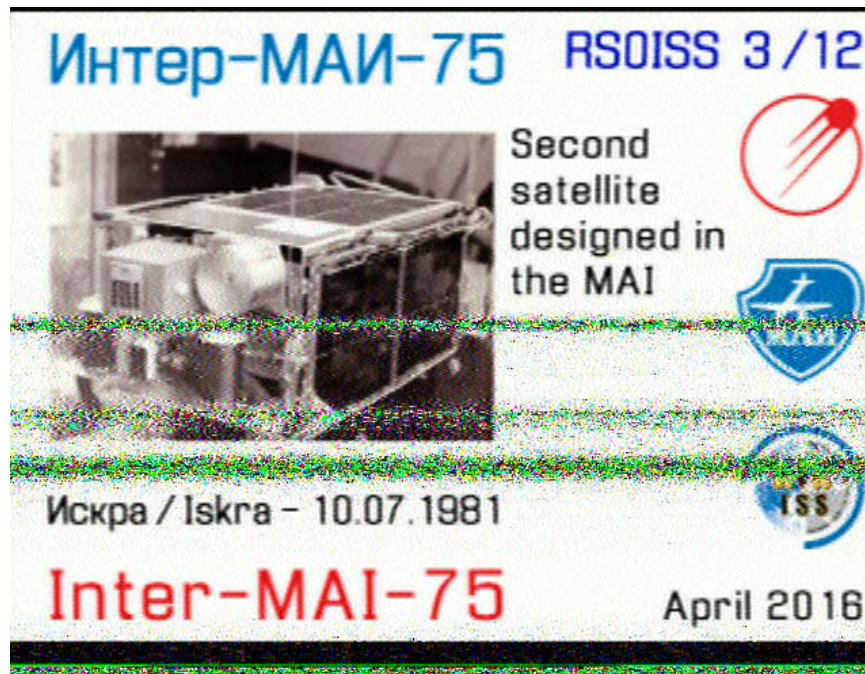
12 April 2016

Images from the ISS



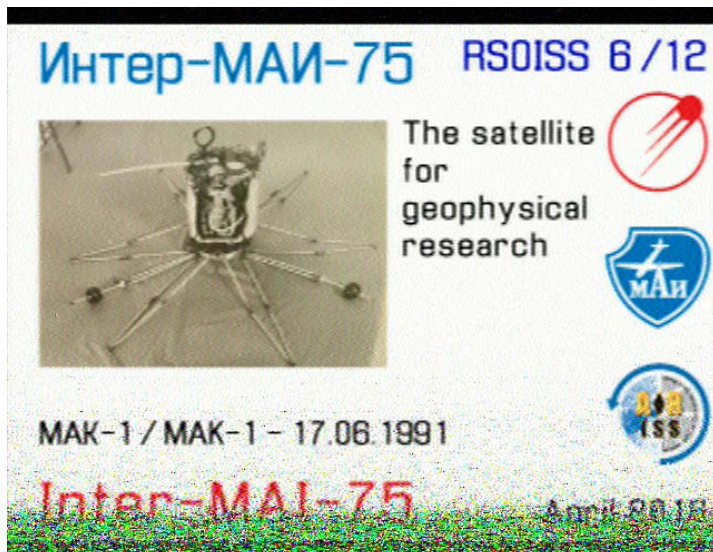
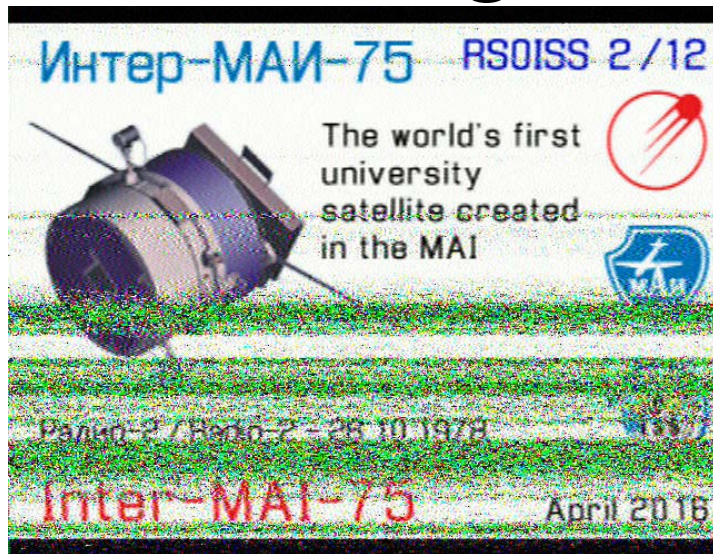
13 April 2016

Images from the ISS



14 April 2016

Images from the ISS



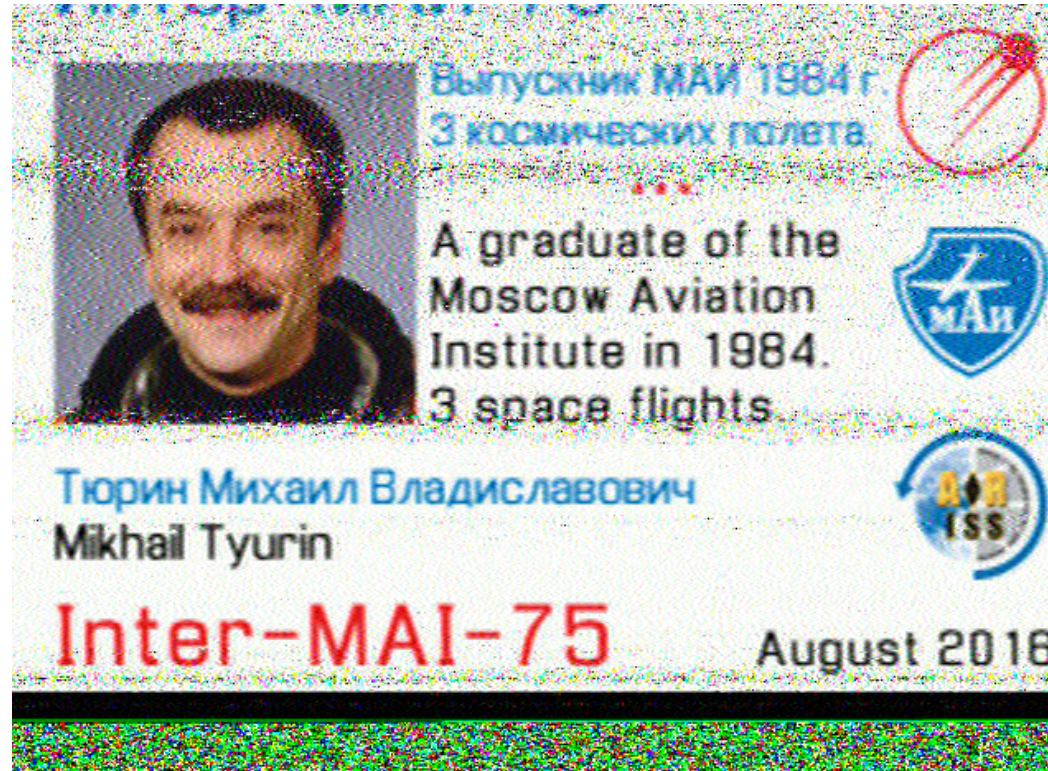
15 April 2016

Images from the ISS



10 June 2016

Images from the ISS



15 August 2016

Images from the ISS



23 July 2017

Images from the ISS



20170723 22z58



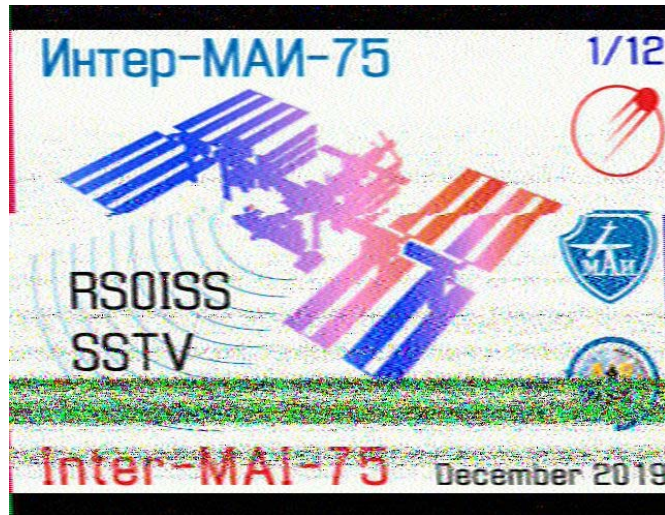
20170723 23z02



20170724 00z38

23/24 July 2017

Images from the ISS



<https://www.heavens-above.com/>

Date	Brightness (mag)	Start			Highest point			End			Pass type
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.	
04 Dec	-	14:12:09	10°	SSW	14:14:51	23°	SSE	14:17:34	10°	E	daylight
04 Dec	-	15:47:55	10°	WSW	15:51:13	64°	SSE	15:54:34	10°	E	daylight
04 Dec	-	17:24:34	10°	W	17:27:55	77°	S	17:31:16	10°	E	visible
04 Dec	-	19:01:21	10°	W	19:04:27	34°	SSW	19:07:32	10°	SE	visible
05 Dec	-	13:24:26	10°	S	13:26:36	16°	SE	13:28:47	10°	ESE	daylight
05 Dec	-	14:59:34	10°	WSW	15:02:49	52°	SSE	15:06:07	10°	E	daylight
05 Dec	-	16:36:06	10°	W	16:39:28	81°	S	16:42:50	10°	E	visible
05 Dec	-	18:12:50	10°	W	18:16:05	45°	SSW	18:19:19	10°	SE	visible
05 Dec	-	19:50:30	10°	WSW	19:52:13	13°	SW	19:53:58	10°	S	visible

M0IJS 05 December 2019

Images from the ISS

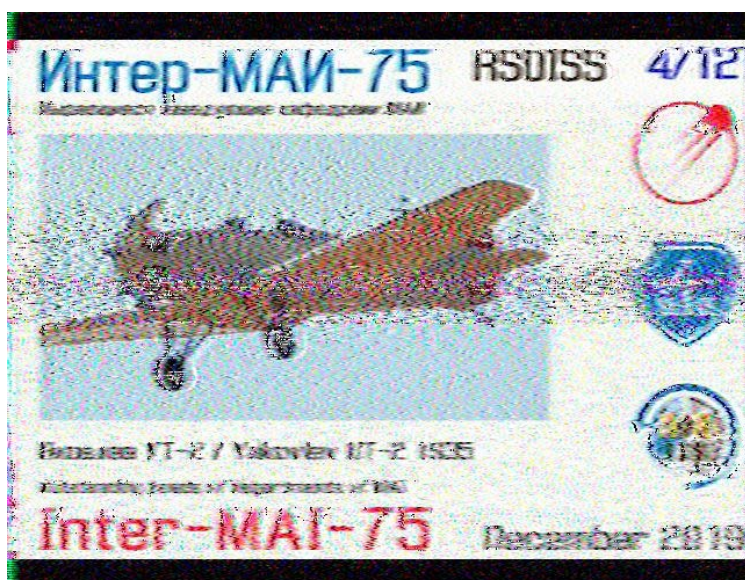


<https://www.heavens-above.com/>

Date	Brightness (mag)	Start			Highest point			End			Pass type
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.	
04 Dec	-	14:12:09	10°	SSW	14:14:51	23°	SSE	14:17:34	10°	E	daylight
04 Dec	-	15:47:55	10°	WSW	15:51:13	64°	SSE	15:54:34	10°	E	daylight
04 Dec	-	17:24:34	10°	W	17:27:55	77°	S	17:31:16	10°	E	visible
04 Dec	-	19:01:21	10°	W	19:04:27	34°	SSW	19:07:32	10°	SE	visible
05 Dec	-	13:24:26	10°	S	13:26:36	16°	SE	13:28:47	10°	ESE	daylight
05 Dec	-	14:59:34	10°	WSW	15:02:49	52°	SSE	15:06:07	10°	E	daylight
05 Dec	-	16:36:06	10°	W	16:39:28	81°	S	16:42:50	10°	E	visible
05 Dec	-	18:12:50	10°	W	18:16:05	45°	SSW	18:19:19	10°	SE	visible
05 Dec	-	19:50:30	10°	WSW	19:52:13	13°	SW	19:53:58	10°	S	visible

M0IJS 05 December 2019

Images from the ISS

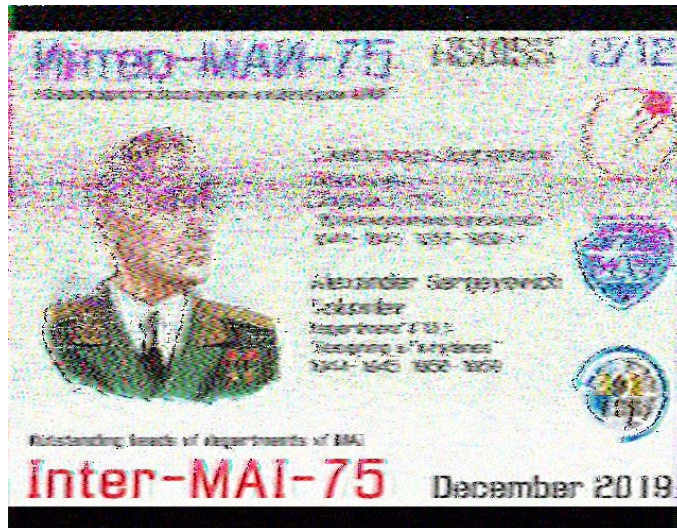


Date	Brightness (mag)	Start			Highest point			End			Pass type
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.	
04 Dec	-	14:12:09	10°	SSW	14:14:51	23°	SSE	14:17:34	10°	E	daylight
04 Dec	-	15:47:55	10°	WSW	15:51:13	64°	SSE	15:54:34	10°	E	daylight
04 Dec	-	17:24:34	10°	W	17:27:55	77°	S	17:31:16	10°	E	visible
04 Dec	-	19:01:21	10°	W	19:04:27	34°	SSW	19:07:32	10°	SE	visible
05 Dec	-	13:24:26	10°	S	13:26:36	16°	SE	13:28:47	10°	ESE	daylight
05 Dec	-	14:59:34	10°	WSW	15:02:49	52°	SSE	15:06:07	10°	E	daylight
05 Dec	-	16:36:06	10°	W	16:39:28	81°	S	16:42:50	10°	E	visible
05 Dec	-	18:12:50	10°	W	18:16:05	45°	SSW	18:19:19	10°	SE	visible
05 Dec	-	19:50:30	10°	WSW	19:52:13	13°	SW	19:53:58	10°	S	visible
06 Dec	-	12:37:20	10°	SSE	12:38:22	11°	SE	12:39:25	10°	ESE	daylight
06 Dec	-	14:11:17	10°	SW	14:14:26	40°	SSE	14:17:36	10°	E	daylight
06 Dec	-	15:47:39	10°	W	15:51:00	79°	S	15:54:22	10°	E	daylight
06 Dec	-	17:24:22	10°	W	17:27:40	58°	SSW	17:31:00	10°	ESE	visible
06 Dec	-	19:01:30	10°	W	19:03:58	19°	SW	19:06:27	10°	SSE	visible
07 Dec	-	13:23:06	10°	SW	13:26:04	30°	SSE	13:29:03	10°	E	daylight
07 Dec	-	14:59:12	10°	WSW	15:02:32	73°	S	15:05:54	10°	E	daylight
07 Dec	-	16:35:53	10°	W	16:39:14	69°	S	16:42:34	10°	ESE	visible
07 Dec	-	18:12:47	10°	W	18:15:40	26°	SSW	18:18:32	10°	SSE	visible

<https://www.heavens-above.com/>

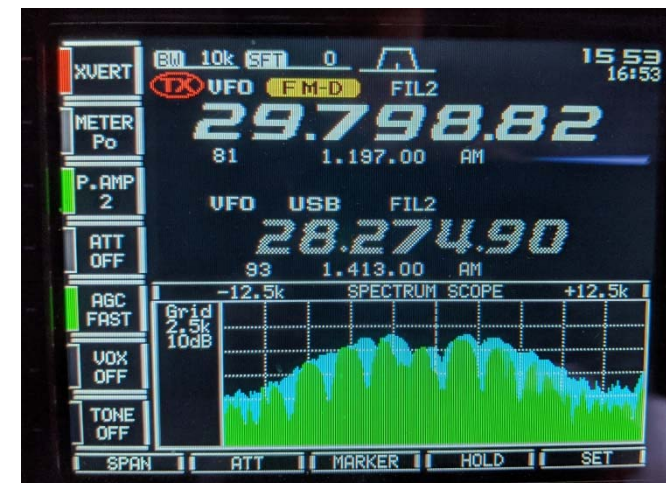
M0IJS 06 December 2019

Images from the ISS



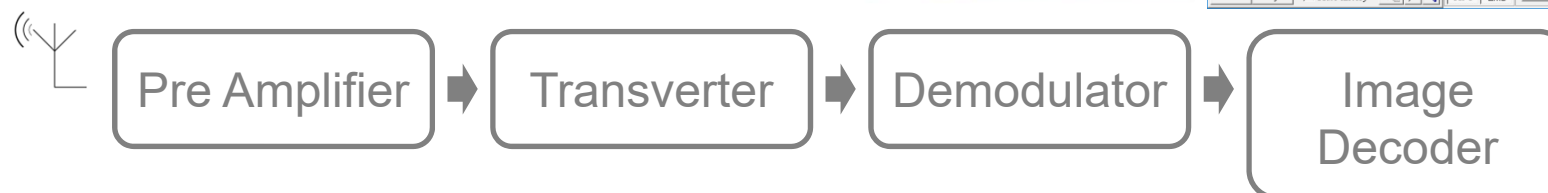
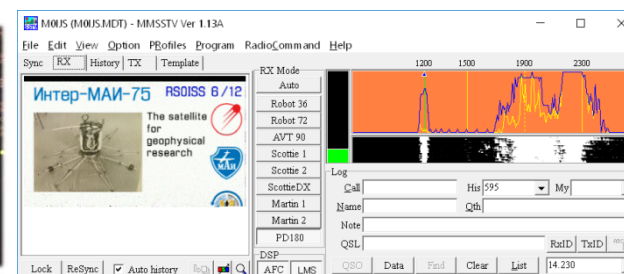
Date	Brightness (mag)	Start			Highest point			End			Pass type
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.	
04 Dec	-	14:12:09	10°	SSW	14:14:51	23°	SSE	14:17:34	10°	E	daylight
04 Dec	-	15:47:55	10°	WSW	15:51:13	64°	SSE	15:54:34	10°	E	daylight
04 Dec	-	17:24:34	10°	W	17:27:55	77°	S	17:31:16	10°	E	visible
04 Dec	-	19:01:21	10°	W	19:04:27	34°	SSW	19:07:32	10°	SE	visible
05 Dec	-	13:24:26	10°	S	13:26:36	16°	SE	13:28:47	10°	ESE	daylight
05 Dec	-	14:59:34	10°	WSW	15:02:49	52°	SSE	15:06:07	10°	E	daylight
05 Dec	-	16:36:06	10°	W	16:39:28	81°	S	16:42:50	10°	E	visible
05 Dec	-	18:12:50	10°	W	18:16:05	45°	SSW	18:19:19	10°	SE	visible
05 Dec	-	19:50:30	10°	WSW	19:52:13	13°	SW	19:53:58	10°	S	visible
06 Dec	-	12:37:20	10°	SSE	12:38:22	11°	SE	12:39:25	10°	ESE	daylight
06 Dec	-	14:11:17	10°	SW	14:14:26	40°	SSE	14:17:36	10°	E	daylight
06 Dec	-	15:47:39	10°	W	15:51:00	79°	S	15:54:22	10°	E	daylight
06 Dec	-	17:24:22	10°	W	17:27:40	58°	SSW	17:31:00	10°	ESE	visible
06 Dec	-	19:01:30	10°	W	19:03:58	19°	SW	19:06:27	10°	SSE	visible
07 Dec	-	13:23:06	10°	SW	13:26:04	30°	SSE	13:29:03	10°	E	daylight
07 Dec	-	14:59:12	10°	WSW	15:02:32	73°	S	15:05:54	10°	E	daylight
07 Dec	-	16:35:53	10°	W	16:39:14	69°	S	16:42:34	10°	ESE	visible
07 Dec	-	18:12:47	10°	W	18:15:40	26°	SSW	18:18:32	10°	SSE	visible

<https://www.heavens-above.com/>



M0IJS 06 December 2019

Images from the ISS



What you'll need

- White stick antenna (X50 etc)
- VHF receiver tuned to 145.800MHz FM
- PC & sound interface (Signalink, G4ZLP, etc)
- MMSSTV software

<https://hamsoft.ca/pages/mmsstv.php>

Method

Be prepared to dial in +5KHz Doppler correction at acquisition of signal. You'll wind this back during the pass. A circular antenna polarisation is ideal although a white stick will work fine, if you're willing to accept polarisation error and a bit of noise in the received signal. Use the 11° pass to test things out, 40° & 79° to attempt image reception. More details at:

<https://amsat-uk.org/2019/12/02/iss-sstv-dec-4-5-and-6/>

Date	Brightness (mag)	Start			Highest point			End			Pass type
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.	
04 Dec	-	14:12:09	10°	SSW	14:14:51	23°	SSE	14:17:34	10°	E	daylight
04 Dec	-	15:47:55	10°	WSW	15:51:13	64°	SSE	15:54:34	10°	E	daylight
04 Dec	-	17:24:34	10°	W	17:27:55	77°	S	17:31:16	10°	E	visible
04 Dec	-	19:01:21	10°	W	19:04:27	34°	SSW	19:07:32	10°	SE	visible
05 Dec	-	13:24:26	10°	S	13:26:36	16°	SE	13:28:47	10°	ESE	daylight
05 Dec	-	14:59:34	10°	WSW	15:02:49	52°	SSE	15:06:07	10°	E	daylight
05 Dec	-	16:36:06	10°	W	16:39:28	81°	S	16:42:50	10°	E	visible
05 Dec	-	18:12:50	10°	W	18:16:05	45°	SSW	18:19:19	10°	SE	visible
05 Dec	-	19:50:30	10°	WSW	19:52:13	13°	SW	19:53:58	10°	S	visible
06 Dec	-	12:37:20	10°	SSE	12:38:22	11°	SE	12:39:25	10°	ESE	daylight
06 Dec	-	14:11:17	10°	SW	14:14:26	40°	SSE	14:17:36	10°	E	daylight
06 Dec	-	15:47:39	10°	W	15:51:00	79°	S	15:54:22	10°	E	daylight
06 Dec	-	17:24:22	10°	W	17:27:40	58°	SSW	17:31:00	10°	ESE	visible
06 Dec	-	19:01:30	10°	W	19:03:58	19°	SW	19:06:27	10°	SSE	visible
07 Dec	-	13:23:06	10°	SW	13:26:04	30°	SSE	13:29:03	10°	E	daylight
07 Dec	-	14:59:12	10°	WSW	15:02:32	73°	S	15:05:54	10°	E	daylight
07 Dec	-	16:35:53	10°	W	16:39:14	69°	S	16:42:34	10°	ESE	visible
07 Dec	-	18:12:47	10°	W	18:15:40	26°	SSW	18:18:32	10°	SSE	visible

M0IJS December 2019

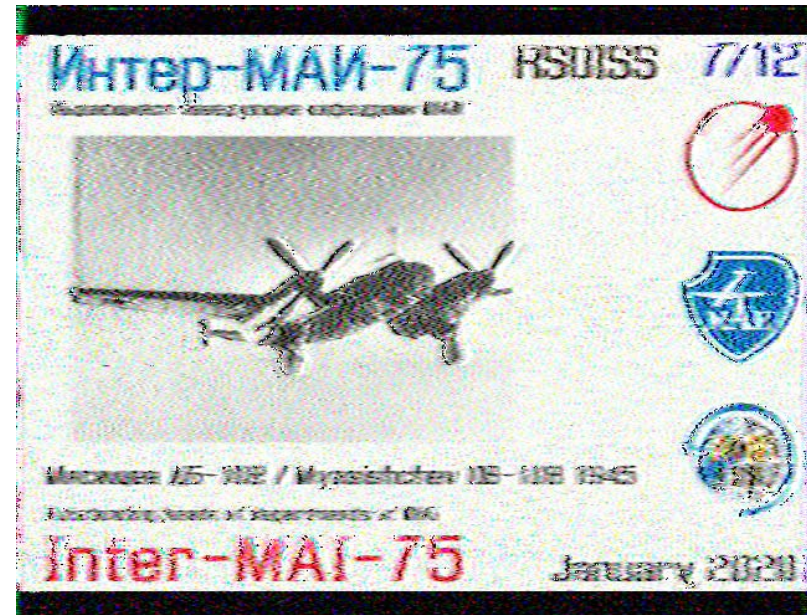
<https://www.heavens-above.com/>

Images from the ISS

	Date	Brightness (mag)	Start			Highest point			End			Pass type
			Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.	
	30 Jan	-	15:52:28	10°	SSW	15:55:26	28°	SSE	15:58:24	10°	E	daylight
①	30 Jan	-	17:28:34	10°	WSW	17:31:58	71°	S	17:35:20	10°	E	visible
②	30 Jan	-	19:05:20	10°	W	19:08:43	72°	S	19:12:05	10°	ESE	visible
③	30 Jan	-	20:42:16	10°	W	20:45:14	28°	SSW	20:48:11	10°	SSE	visible
	31 Jan	-	15:05:24	10°	SSW	15:08:02	21°	SE	15:10:38	10°	E	daylight

<https://www.heavens-above.com/>

No Transmission



MOIJS 30 January 2020