









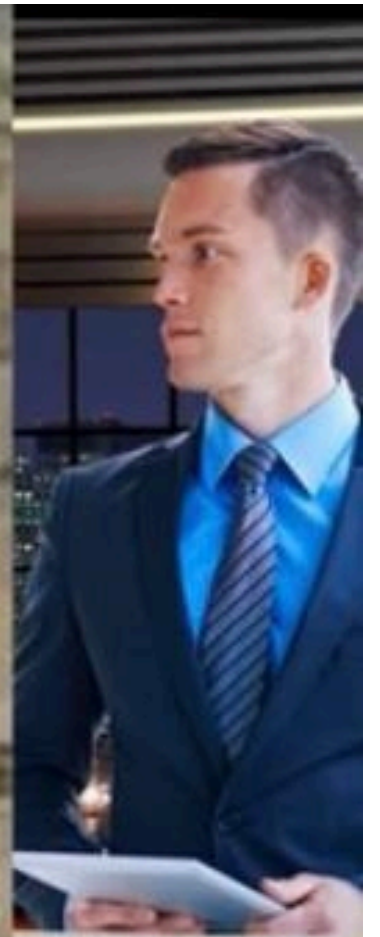








12news.com



BREAKING NEWS



Michigan family shocked to find "space gear" crashed onto their property

by Dave Bondy | Saturday, October 26th 2019

AA





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KBCW
AN ABC 7 STATION

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12news.com

























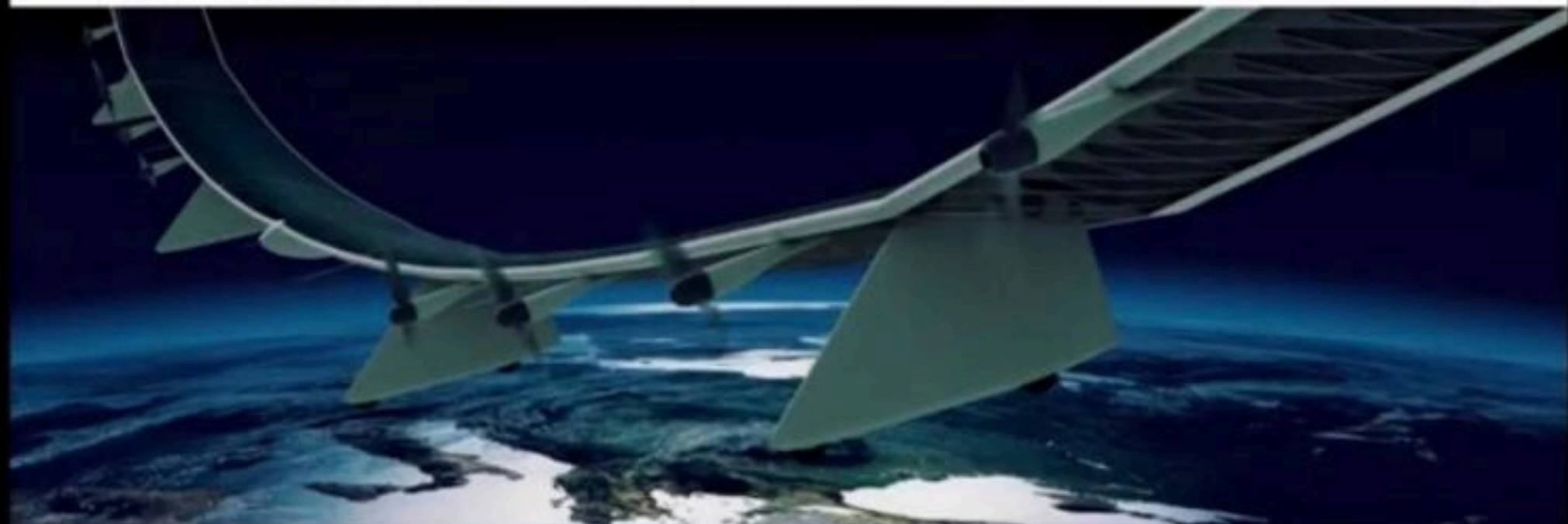
Michigan family shocked to find "space gear" crashed to their property

ve Bondy | Saturday, October 26th 2019





G NEWS



High-Altitude Pseudo-Satellites

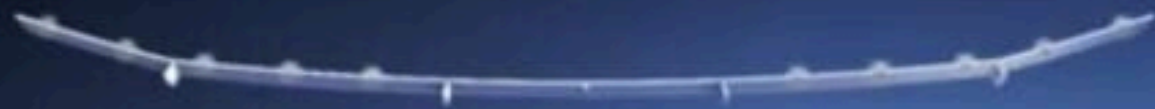
The higher you go, the more people you can reach. That is the basic concept behind HAPSMobile, our joint venture with SoftBank, the Japanese telecommunications company. This year, we assembled the first HAWK30, a solar-powered high-altitude platform station (HAPS) designed to serve a 200-kilometer area from a position 20 kilometers in the atmosphere. HAPSMobile's vision is to create a network of HAWK30s, reaching the billions of people worldwide who lack even basic wireless communications and provide the additional bandwidth needed to support the emerging 5G standard and the Internet of Things.



Balloon Program Office







Fly for Months



High Altitude Platform Station



In other words, this is Hubble





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DESTINATIONS

FOOD & DRINK

PLAY

STAY

WONDER

VII

NASA's telescope in the sky

Hide caption

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* SQUEAKING, CLANKING *

	Balloon_launch_list...	129.PDF	horr-val2a.pdf	3 D 0034.pdf
1	2002-02-07	12:42:46	ARCHEOPS II	ARCHEOPS 2
2	2002-02-12	11:56:22	ARCHEOPS II	MIPAS
313	2002-03-02	09:38:00	HALOZ	HALOZ 2-1
314	2002-03-13	16:35:00	ARCHEOPS II	MIR Short duration
315	2002-03-14	16:11:00	ARCHEOPS II	MIR VLD-1
316	2002-03-17	16:25:00	ARCHEOPS II	MIR VLD-2
317	2002-08-03	06:12:00	ENVISAT validation 1	Opening flight
318	2002-08-05	18:04:00	ENVISAT validation 1	LPMA-IASI
319	2002-08-08	14:31:00	ENVISAT validation 1	SDLA-LPMA
320	2002-08-12	17:46:45	ENVISAT validation 1	SAOZ
321	2002-08-18	15:15:02	ENVISAT validation 1	LPMA/NIR
322	2002-11-25	15:53:00	EBASS-test	EBASS
323	2002-11-28	15:10:00	Opening Lämmerzahl	Opening flight
324	2002-12-03	09:58:45	Aerosol 1	Aerosol 1
325	2002-12-04	18:04:00	PSC 2	PSC 2
326	2002-12-06	22:31:00	PSC 1	PSC 1
327	2002-12-07	02:39:30	MIPAS	MIPAS
328	2002-12-16	04:59:03	SOLVE	JPL-Flight
329	2003-01-10	10:48:00	Opening Flight	Envisat



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Balloon_launch_list_for_the_web.pdf - Adobe Acrobat Reader DC

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Home Tools Balloon_launch_list_... 129.PDF hsr-vol2a.pdf 3 D 0034.pdf Sign In

List of all balloon launches from Esrange Space Center

Nr	Date	Time(UT)	Campaign	Payload
1	1982-12-09	17:22:50	SAMBO 82	JAP BAL
2	1982-12-10	16:34:21	SAMBO 82	SU BAL
3	1982-12-12	17:23:40	SAMBO 82	SU BAL
4	1982-12-16	18:02:19	SAMBO 82	A BAL
5	1982-12-18	16:24:30	SAMBO 82	???
6	1985-09-18	07:46:22	PIROG	PIROG
7	1986-05-14	19:04:00	MIKROBA	MIKROBA 1
8	1986-07-26	19:41:38	MAED	SCI BALL
9	1986-07-26	20:50:06	MAED	SCI BALL
10	1987-02-05	07:37:40	CHEOPS	CHEOPS 1
11	1987-02-11	07:45:20	CHEOPS	CHEOPS 2
12	1988-04-12	01:04:00	MIKROBA	MIKROBA 2
13	1988-09-01	01:33:00	PIROG	PIROG 3
14	1990-01-09	23:34:22	CHEOPS 3	LMD
15	1990-01-10	06:23:01	CHEOPS 3	KR 005

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221	2000-02-09	12:56:37	THESEO2000	OZONE LOSS
222	2000-02-13	12:54:00	THESEO2000	OZONE LOSS
223	2000-02-16	08:26:00	THESEO2000	PARACHUTE TEST
224	2000-02-18	12:15:00	THESEO2000	LPMA-DOAS
225	2000-02-18	16:22:00	THESEO2000	MIR

Nr	Date	Time(UT)	Campaign	Payload
226	2000-02-18	18:14:00	THESEO2000	MIR I
227	2000-02-22	16:45:00	THESEO2000	SALOMON
228	2000-02-23	10:33:00	THESEO2000	ORION
229	2000-02-27	13:40:20	THESEO2000	SUPPORT MIR
230	2000-02-29	15:43:00	THESEO2000	MIR
231	2000-03-01	03:36:18	THESEO2000	TRIPLE
232	2000-03-01	09:43:39	HALOZ	HALOZ
233	2000-03-03	13:32:00	THESEO2000	INMARSAT test
234	2000-03-05	15:15:00	SOLVE	BRUNE / IN SITU
235	2000-03-07	14:15:00	THESEO2000	TECHNO FLIGHT 107UI


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U-2S is
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with a

recent \$1.58B in system upgrades include:

- **Sensor upgrades:** improves radar, multi-spectral imaging and signals collection sensors and data links
- **New F118-GE-101 engine:** improves range and altitude, lowers operating costs and reduces weight by 12 percent
- **Glass cockpit:** improves situational awareness; reduces pilot workload and maintenance costs
- **New defensive suite:** improves survivability against the latest generation of missile and fighter threats



U-2S

Length	63 ft/19.2 m
Height	16.7 ft/5.09 m
Wingspan	103 ft/31.39 m
Maximum weight	40,000 lb/18,144 kg
Cruise speed	475 mph/764 km/hr
Payload	5,000 lb/2,268 kg
Ceiling	Above 70,000 ft/21,336 m
Range	Greater than 6,000 mi/9,600 km





U-2S RECONNAISSANCE AIRCRAFT

THE NEWEST GENERATION OF AN AMERICAN ICON

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Home Tools Balloon_launch_list_... 129.PDF hsr-vol2a.pdf 3 D 0034.pdf Sign In

322	2002-11-25	15:55:00	EBASS-test	EBASS
323	2002-11-28	15:10:00	Opening Lämmerzahl	Opening flight
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329	2003-01-10	10:48:00	Opening Flight	Envisat
330	2003-01-16	09:07:00	Aerosol 2	Envisat
331	2003-01-16	14:33:00	ELHYSA	Envisat
332	2003-01-21	18:23:00	SPIRALE	Envisat
333	2003-01-22	09:26:00	Aerosol 3	Envisat
334	2003-03-01	18:22:00	AMON	Envisat
335	2003-03-04	12:55:07	LPMA	Envisat
336	2003-03-06	06:02:27	Triple	Envisat
337	2003-03-16	14:49:00	Saoz/Bro	Envisat
338	2003-03-20	18:22:00	MIPAS	Envisat
339	2003-03-23	14:28:00	LPMA/CNRS	Envisat I

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Techniques that substitute satellites:

1. GPS uses Cell-tower triangulation not Satellites
2. Undersea Cables
3. High Altitude Airships (HAA)
4. High Altitude Platforms (HAP)
5. Lighter-than-air vehicles (LAV)
6. High Altitude Long Endurance (HALE)
7. High Altitude Long Operation (HALO)
8. StratSat
9. Airborne Relay Communication (ARC)
10. HeliPlat which connects to the HeliNet System
11. High Altitude Shuttle System (HASS)
12. Small Balloon Systems (SBS)
13. Nano Balloon Systems (NBS)
14. Google Loon System
15. Stratospheric Platform Systems (SPS)
16. High Altitude Long Endurance Demonstrator (HALE-D)



