Number	Satellite	Operations time	Orbit Type	Orbit Parameters				Dimensions m			Launch date		Nation	Launch site/ Rocket	Organisation	Norad number	Instruments	Manufacturer	LINKS TO INFORMATION	DIAGE LINK	
				Mission objective	Perigee km	Apogor km	Inclination deg	Period min	Spacecraft	Solar array	Dry	Launch									
1	HIRS-2 TOVS (NOALA-10-18)	July 1987- June 1991	Polar Orbit/ Sun-synchronous	s, its surface and cloud cover,	533 km	\$70	98.594	101.5	3.71 x 1.88	2.37 x 4.91	740	1420	17 September 1986	USA	Vandenberg, SLC-3W / Atlas-E Star-375-05S	NOAA (U.S.)	16369	tatur Ultraviolet Radiometer (SHUV/2), Search and Rescue Satellite Added Tracking (SARSAT), Earth Radiation Budget Experiment (ERBE), Space	GE Aerospace	peidra publisheros atendidochia i litter	https://mages.app.goo.gl/@YceUigMYed13Hes5
2	IMG (ADDOS I)	17 August 1995- June 1997/FAIL	Polar Orbit/ Sun-synchronous	Earth environmental research	792	795	98.7	101	4 X 4 X 5	5000 Watts	1300	3500	17 August 1996	Japan	Tanogashima Yoshinobu / H-II	NASDA (Japan)	34277	flometer (AVNR), Scatterometer (NSCAT), Polarization and Directionality of the Earth's Reflectance (POLDER), Limb Atmospheric Spectromete	Mitsubishi Electri	peralisadite-minimorialas, Arpelia vil	https://images.app.goo.gl/Zazel.kXP2vGex54G8
3	IMG (ADDOS II)	December 2002 - October 2005 Power FAIL	Polar Orbit/ Sun-synchronous	ner and energy cycle as a part of a mass and fundamental productivit change as a result of continuing f	799	902	98.34	101.2	4 X 4 X 5	5000 Watts	1305	3690	14 December 2002	Japan	Tanegashima Yoshinobu 1 / III-IIA 202	NASDA (Japan)	27597	diometer (AMSR), Global Imager (GLI), Improved Limb Atmospheric Spectrometer-II (ILAS-II), Polarization and Directionality of the Earth's Refi	Mitsubishi Electric	end'unellis-missions/abdoss-ii , https://en.wi	https://images.app.goo.gl/XxxeldFkmgN/YMSXX
4	SCIAMACHY (Envisus)	1 March 2002- May 2012	Polar Low Orbit/Sun-synchronous	environmental research, Observ	772	774	98.4	100.16	36 x 10 x 5	-6500 Watts	-	8211	1 March 2002	Europe	Kourpu ELA-3 / Ariane 5G V-145	ESA, IUP University of Brumon (German)	9 27386	g Imaging Absorption spectroMeter for Atmospheric CHattographY) compares light coming from the sun to light reflected by the Earth, which provi	Airbus Space and	ipadia orgiviki Enviratifastrumom, https://w	https://images.apo.goo.gl/dGZ/GgNSMLaZLAYwd
5	AIRS (Aqua)	4 May 2002 - engoing	Polar Low Orbit/Sun-synchronous	tion, evaporation, and cycling	762	703	98.198	99	4.81 x 16.7 x 8.04	4444 Watts	2850	3117	4 May 2002	USA	Vandenberg, SLC-2W / Delta II 7920-10L	IPL(U.S.)	27424	ation Imaging Spectroradiometer (MODIS), Advanced Microwave Sounding Unit (AMSU-A), Atmospheric Infrared Sounder (AIRS), Humidity Sou	TRW	annagos, https://en.wikipeda.org/wiki/Aqua	https://mages.app.goo.pl/C57emEleSpeXys29
6	IASI (MatOp) 3 Sandlines	19 October 2006	Polar Orbit/ Sun-synchronous	operational meteorology	765	709	98.7	101	62x34x34	17.6 x 6.5 5.2	4093	4905	5 / 17 September 2012 / 7	Europe	Barkoner/Barkoner/Guiana / Soyus ST Frega	CNES/EUMETSAT (ESA)	06-044A / 2021-049A / 2018-08	2, SARP-3, SARR , MHS, IASI – Infrared Atmospheric Sounding Interferometer, GRAS – Global Navigation Satellite System Receiver for Atmosp	Eurocteat	wkipeda onjwki Metly http://orth.co.ic	https://mages.app.goo.gl/sAMA47ce/R933189
7	GOSAT	23 January 2009- engoing	Polar Low Orbit/Sun-synchronous	Greenhouse Gas Monitoring	674	676	98.06	98.12	77	3900 Wates	-	1750	23 January 2009	Japan	Tanegushima Yoshinobu 1 / H-IIA 202 F15	JAXA (Japan)	33492	greenhouse gas observation sensor (TANSO-FTS), cloud/aerosol sensor (TANSO-CAI)	Mitsubishi Electric	n wkipala opiwki Gronboue, Goes Obe	https://mages.app.goo.pl/Rvln/HS/Hdrps/RNM
8	GOSAT 2	29 October 2018 – ongoing	Polar Low Orbit/Sun-synchronous	Greenhouse Gas Monitoring	612	628	97.84	98.1	77	5000 Watts		1900	29 October 2018	Japan	Tanogashima Yoshinoba 1 / H-IIA F40	JAXA (Japan)	43672	gramhous gas observation sansor (TANSO-FTS), cloud/acrosol sansor (TANSO-CAI), TANSO-FTS-2 (TANSO-CAI 2	Mitsubishi Electri	nase Gases Observing Satellite-2 https://arth	https://mages.app.goo.gl/2K3FNaT3GUmmvo3A
9	000	24 February 2009	Polar Low Orbit/Sun-synchronous	al space-based observations of (CO	(2)		Fall	Fall	Fail	Fail	Fail	Fail	24 February 2009	USA	Vandenberg, LC-576E / Taurus XL 3110 (T8)	IPL(U.S.)		sectionistics, integrated into a common structure and fed by a common telescope. The spectrometers will make simultaneous measurements of the ca	Oribial Sciences	Character (Technology https://doctors.org/	https://emages.app.goo.gl/E/Mempanin/Acd/ac/
10	000-2	2 July 2014- engoing	Polar Low Orbit/Sun-synchronous	al space-based observations of (C	766	703	98.2	98.82	212x094	815 Watts	409	454	2 July 2004	USA	Vandenberg, SLC-2W / Delta II 7320-10C	IPL(U.S.)	40059	the instrument, provides power, receives and processes commands from the ground, records, and downlinks the data collected by the instrument, and	Oribal Sciences	Othing Cabon Observatory 2 https://doi.or	https://images.app.goo.gl/DcDYJHan-6994k?wsf.
11	GHGSut-D (or Claim)	21 June 2016- ongoing	Polar Low Orbit/Sun-synchronous	reenhouse gas monitoring satellit	495	507.8	97.3	94.5	02x02x04	50 Wats		15	22 June 2006	Canada	Sr SLP / PSLV-XL (ISRO)	GHGSat (Canada)	7	a wide-angle Fabry-Pent (WAT-P) imaging spectrometer	ace Flight Labora	procket de doc_eda iphpus-d http://pubs	https://mages.app.goo.gl/SofthjandTSXqMvWs/Y99
12	GHGSat-Cl (or lris)	9 March 2020 - Ongoing	Polar Low Orbit/Sun-synchronous	reenhouse gas monitoring sate/life	495	507.8	97.3	94.5	0.2 x 0.3 x 0.4	50 Wats	10	16	3 September 2020	Canada	Ko ELV / Voga (ESA)	GHGSut (Canada)	7	a wide-angle Fabry-Penn (WAF-P) imaging spectrometer	ace Flight Labora	procket delder adalphase d http://pubs	https://magocapp.goo.gl/Sc0bjondTSXqbb/Wc0V9
13	GHGSan-C2 (or Hago)	1 January 2021 Ongoing	Polar Low Orbit/Sun-synchronous	reenhouse gas monitoring satellit	495	907.8	97.3	94.5	0.2 x 0.3 x 0.4	50 Wats	10	16	21 January 2021	Canada	CC SLC-40 / Falcon-9 v1.2 (Block5) (Space x	GHGSut (Canada)	7	a wide-angle Fabry-Pent (WAF-P) imaging spectrometer	ace Flight Labora	procket de dec adaiphasar-d http://pubs	https://emges.app.goo.gl/SofthandTSXeMvWeYV
14	TanSat (or CarbonSat)	21 December 2005- ongoing	Polar Low Orbit/Sun-synchronous	dicated to the carbon directle (CO2)	700		98.2		1.5 x 1.8	1790 Watts	610	620	21 December 2016	China	Jisquan Satellite Launch Center / March 2D	CAS (China)	41898	High-resolution Carbon Dioxide Spectrometer and Cloud and Aerosol Polarimetry Imager	licrosystems and I	TasSar - coPortal Diractory - Satellite Missions	tal one Terinatelline-enissions is TanSat-2205202 is TanSat. Auto 15.
15	GAS FTS abound FY-JD	15 November 2017- ongoing[39]	Polar Low Orbit/Sun-synchronous	operational meteorology	831.6	834.9	98.8	101.4	4.46 x 10	2500 Watts	2250	750	15 Nevember 2017	China	Talyaun Space Center	CMA (China)	43010	Graenhouse-gases Absorption Spectrometer	suffite Meteorolog	EY-ID (name ony on)	Cityl name on enhancemental policy (CV-3D insting
16	GMI (GaoFan-5, (83)	8 May 2015— ongoing[42]	Polar Low Orbit/Sun-synchronous	nition Earth Observation Systems	705.5	709.2	98.12	98.8			-		8 May 2018	China	Jiaquan Space Center / CZ-4C	CAS (China)	43461	Advanced Dipurque and Image (AME) Want and all from Machingston Secure (VMS) Generations and American Machines (AME) Armosphare is from all respected (AME) Armosphare is from all respected (AME) Environment Mandatering Instrument (AMI) Directional Philaterines Canture (IME)	entory of Remote :	den 5 (GF 5) - Genter's Sauce Page (skenseket	https://greco.dynacket.de.long.only/FS_2.long
17	000-3	4 May 2019- ongoing[45]	LEO / Mounted on ISS	from the presence of CO2 i	418	422	51.6	92.68	185×1.0×0.8	600 W	-	500	May 4, 2009	USA	Cape Canaveral. Falcon 9, SpaceX: CRS-15	IPL(U.S.)	25544 (ISS)	https://www.lipil.nasa.gov/pay/red/instrument/	395.	https://doi.org/10.1016/j.rur.2021.112314 https://ocord.jol.ruru.gov/	Cocov 2 jol nava gov/media/images/psylead-small original jog
15	MicroCarb	espected 2022	Sun-synchronous orbit	or and characterize CO2 surface	650	650			-	200 W	170	200	TRD	France	TRD	CNES (France)		https://microcole.com/fries/MEROCARDICP increment htm.	CNES	se linicocarb ence from METROCARD index.)	r filocity for large public dropal 201512 image byc. microcarb-si
19	GOSAT-1 (GOSAT-GW)	espected 2023	Polar Low Orbit/Sun-synchronous	Groenhouse Gas Monitoring		665			-	-	-	1700	To be Defined	Japan	To be defined	JAXA (Japan)		Thermal And Near infrared Sensor for carbon Observations Advanced Microwave Seanning Radiometer - 3 Other instruments may be added	Minubishi	WMO OSCAR Sandler GOSAT-GW	Not yet available
20	GoCARR	expected 2023																			
21	MethaneSat	expected 2022													1			https://ex	w methaness org."	(NION2) inches out-instrument of ital platfor	n-derskep-derign-milenerg
22	Sentinel 5 Procursor Saturity																				

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