MULTI SATELLITE SPECTRAL BANDS CONVERSION TABLE - Follow Wave-Lenghts								SIMPLE RGBN SATELLITES								OTHER MULTISPECTRAL SATELLITES								By: @sergioajv1 (Twitter)		
SATELLITES > SENTINE			NEL-2-N	MSI		LANDSAT-8-0	CBERS -	INPE			SKYMAP50-SV1			Jilin JL1GP - 01 & 02			Sentinel-3-OLCI Sent			-3-SLSTR		Version:04 - 2022/10/15				
Swath:10		100km;	00km; Revisit:5d			Swath:185km;Revisit:16d.			Orbit H: 628,6 km					Swath:12km; Revisit:2d.		CGSat			Swath:127	0km;Revisit:4d	Swath:1400km;Revisit:2d			*This whole table		
WaveLenght			Sentinel-2A (~2B)			Res:15-60m			4A			Wave	3 e 4	Resolution: 0.5m / 2m			HyperScan sensor			Resolution	n:300m	Resolution:500/1000m			is under	
Aproximate #order		er (201	(2015-06-23+)		(2013-05-30+)			(2019-12-20+)			Lenght	(2014+)	(2013-05-	(2013-05-30+)					(2016-01-16+)				tests / verification*			
		BAN	D W	Vave-L.		RES:	BAND		RES:	WPM	мих	WFI		IDEM			RES:		Wave L.	RES:				Central	MULTIP	PURPOSES - PROPERTIES
(nm)	TYPE	#orde	r: (n	ım) Min.	Max.	m	#order:	Min. Max	k. m	2 - 8m	17m	55m	Min. Max	5-80m	BAND	Min Max	m	BAND	nm	m	BAND	Min. Max.	BAND	W.L.	LIER	(According to S2/L8/S3):
400	Violet									31d	31d	5d		26-5d				B0-Pan	450-800	5	B01	392,5 407,	5			//Coastal aerosol, correction
420	Violet	_								92Km	95Km	684K		60-866km		=CBERS		B1	403-423	5	B02	407,5 417,	5			//YELLOW subs.,detrital pig. (TURBIDITY)
440	Violet	#12-B		432,2	453,2	60	#3-B01	433 4	53 30	B0-PAN			450 900		B0-PAN	450 890	- , -	B2	433-453	5	B03	437,5 447,	5			Aerosol//Chlorophyll abs., vegetation
460	*BLUE	* #1-B0	2	459,4	525,4	10	#2-B02	450 5	15 30	B1-B	B05	B13	450 520		B1	450 520	2	B3	450-515	5	B04	485 49	5 reflect			SoilxVeg.,water/Bathym./Chlorophyll MAX.
530	+0000	10 D		544.0	577.0		#1-B08-PAN	500 6	80 15		200	D.1.1	500 500			500 500	_	B7	485-495	10	B05	505 51	5 500m			//Chlorophyll, sedim., turbid., red tide
560	*GREE	N* #3-B0	3	541,8	577,8	10	#6-B03	525 6	00 30	B2-G	B06	B14	520 590		B2	520 590	2	B4	525-600	5	B06	555 56	5 S1	554,27	1	Turbidity,oil//Chlorophyll MIN.
600																		B8 B5	615-625 630-680	10 5	B07	045 00				L-8 Panchromatic //
630	*RED	#5-B0	14	649,1	680.1	10	#5-B04	630 6	80 30	B3-G	B07	D15	630 690		B3	630 690	2	B9	650-680	10	B08	615 62 660 67	o S2	659,47	1	//Sediment loading Soil,veg//2nd Chl.MAX,sedim.,yellow subs.
670	KED	#5-01	-	043,1	000,1	10	#5"004	030 0	50 50	D3-0	D01	ы	030 030		В	030 030		B14	660-670	20	B09	670 677,	52	059,47	- '	//Improved fluorescence,Surface Mix.Layer
690																		B15	678-685	20	B10	677.5 68	5			//Chlorophyll fluorescence peak
700	RedEd	ie #6-B0	5	696,6	711,6	20												B10	699-719	10	B11	703,75 713,7	5			Vegetation//Chl.fl.basel.
740	RedEd		_	733	748	20												B11	733-748	10	B12	750 757,	5			Vegetation//O2 abs.,clouds,veg.
760	RedEd	_																B16	750-758	20	B13	760 762,	5			//O2 abs.,clouds,veg.;aerosol corr.
765	RedEd																	B17	759-763	20	B14	762,5 766,2	5			//Atmospheric correction
767	RedEd	je																B12	773-793	10	B15	766,25 768,7	5			//Cloud top press.,fluore.over land
780	NIR	#9-B0	7	772,8	792,8	20				B4-N	B08	B16	770 890		B4-NIR	770 890	2	B6-NIR	785-900	5	B16	771,25 786,2	5			Vegetation//Atmos.corr.
830	NIR	#2-B0	8	779,8	885,8	10																				Vegetation
860	NarrNI	R #10-B	3A	854,2	875,2	20	#4-B05	845 8	30									B13	855-875	20	B17	855 87	5 S 3	868	1	Vegetation//Atmos.aeros.corr.,clouds
880	NIR																	B18	935-955	20	B18	880 89	0			Vegetation//Water vapour reference; SLSTR
900	SWIR																	B19	1000-1040	20	B19	895 90	5			//Water vapour abs.,Veg.(max.reflect.)
940	SWIR	#13-B	_	935,1	955,1	60												SW1	1195-1225	100	B20	930 95	0			//Water vapour abs.,Atmos.aeros.corr.
1300	SWIR	#4-B	_	1358	1389	60	#9-B09	1360 13										SW2	1360-1390	100	B21	1000 104		1374,8	3	Cirrus cloud detection//Atmos.aeros.corr.
1600	SWIR	#7-B	_	1568,2	1659,2	20	#8-B06	1560 16					1550 1750	SWIR1				SW3	1550-1590	100			S 5	1613,4	3	Snow/ice/cloud disc>0.025;moist.soil-veg.//
2200	SWIR	#11-B	12	2114,9	2289,9	20	#7-B07	2100 23	00 60				2080 2350	SWIR2				SW4	1610-1690	100			S6	2250,7	3	Fire/Ground/Snow/cloud>0.015;soil-veg.
+	IR		_				#40 D40	TIDO (400											400			S7/F1	3742	.001	THERMAL INFRA-RED
+	THERM	_					#10-B10 B11	TIRS1 TIRS2	100				10400 12500	Thermal				LW	3700-4950	100 150			\$8/F2 \$9	10850 12020.5	.001	/Thermal map, soil moist/
DAND.	THERM/		DU3	-B12: 2.09s 12 tr	rooko		0.96s / 14 tracks		100									LVV	7500-13500	150			39	12020,5	.001	/Improved thermal map/
INDI	FS FOR	MIII AS	ILAS - CONVERSION:				0.90S / 14 tracks	BASIC R,G,B,NIR SATELLITES:													NOTES - Purposes:					
NDVI	NDNR)	(B08-B	08-B04)/(B08+B04)				(B05-B04)/(B05		NDVI = (N-R)/(N+R) ; DVI = N/R										(B17-B08))/(B17+B08)		Normalized Difference Vegetation Index				
			-B12)/(B08+B12)			(B05-B07)/(B05		(,(,) =										(B08-S6)/	, , ,	_	Vegetation					
			B11)/(B08+B11)			(B03-B05)/(B03												, ,)/(B06+B17)	Water on Leaves						
		08)/(B03+B08)			(B03-B05)/(B03		NDWI = (G-N)/(G+N) ; Simple = G/N)/(B06+B17)	Water Bodies: Normalized Difference Water Index			ifference Water Index				
())/(B03+B11)			(B03-B06)/(B03												· / · /			nask near (S2NDSI>0.2 & B03>0.15)				
GEOAlteration B11/B12			2				B06/B07												B20/B21		Geology	Geology				
FeOx B11/B08			8				B06/B05												B20/B17		Geology	<u> </u>				
			2 - Alternative: B05/B01			B04/B02		IOx = R/B										B08/B04 Geology: Iron Oxide Index				e Index R	/B			
			0.3 B09>0.1 B10>0.01					G > .3 (? - test)										Clouds(any)								
Brovey(Sharp)										Brovey Pansharpening = (< R ; G ; B ; N > / (R +G + B + N)) * PAN										Simple Color Sharpening or				ening or		
BAND COMPOSITION			ONS: SENTINEL & OTHERS			LANDSAT-8		CBERS-INPE: 3 / 4 / 4A SKYMAP50-SV1 JL1GP - CGSat										Sentinel-3-OLCI				Sources				
NATURAL EALSE NID (DED VEG)			B04*3, B03*3, B02*3			B04*3, B03*3, E		R, G, B										(B08+B09+B10)*1, B06*3, (B04+B05)*1.5					https://www.usgs.gov/faqs/what-are-best-landsat-spa			
FALSE NIR (RED VEG) NATURAL ENHANCED						B05*2,B04*3,B0	N, R, G (~R, N, G)											B17*2, (B08+B09+B10)*1, (B04+B05)*1.5				D05/*4.5	https://en.wikipedia.org/wiki/Sentinel-2 https://www.sentinel-hub.com/develop/documentation			
FALSE COL.URBAN-SW						B04*3,B03*2+B05*.5,B02*3 B07*2,B06*3,B04*3				IOX(R/B), N, G										(B08+B09+B10)*1+B11*.3, B06*2+(B16+B18)*.5, (B04+B05)*1.				+B(05)*1.5	nttps://www.sentinei-nub.com/develop/documentatio https://sentinel.esa.int/web/sentinel/technical-guides	
FALSE COL.URBAN-SW FALSE COL.SWIR-NIR						B07*2,B06*3,B0 B07*3,B05*3,B0		N, NDRG((R-G)/(R+G)), B															https://sentinel.esa.int/web/sentinel/user-guides/s			
FALSE COL.SWIR-NIR FALSE COL.GEOLOGY			, ,			B07*3,B05*3,B0		DVI(N/R), G, B																		
GEOLOGY ENHANCED						B07 3,B04 3,B0 B07*2,B04*1.5-												B20*.15+B08*1.7.B06*1.6+B17*.2.B04*2-B21*.1					*L8:The along-track spectral band separation leads to an approximately 0.05 accord time delay This time delay creates a small but significant			
AGRICULTURE			B04*1+B12*1.5,B05*1.5+B08*0.5,B02*2.8 B11*3,B08*3,B02*3			B07 2,B04 1.5- B06*3,B05*3,B0		N/G										DZU .10+BU0 1.7,BU0 1.0+B17".Z,BU4"Z-BZ1".1					https://earth.esa.int/web/eoportal/satellite-missions/e			
BATHYMETRIC			B11*3,B08*3,B02*3 B04*3,B03*3,B01*3			B00 3,B03 3,B0 B04*3,B03*3,B0												(B08+B09+B10)*1, B06*3, (B02+B03)*1.5					http://www2.dgi.inpe.br/catalogo/explore			
DATHTWEIRIC			DU4 3,DU3 3,DU1 3				UU4 U,UU J,BI		(R-B)/(R+B)										[DU0+BU9+B1U]"1, BU0"3, (BU2+BU3)"1.5							