MULTI SATELLITE SPECTRAL BANDS CONVERSION TABLE - Foli						low Wave-Lend	RGBN								MULTISPECTRAL								By: @sergioajv1 (Twitter)			
		SENTINEL		LANDSAT-8-C	CBERS - INPE SKYMAP50-SV1							JL1GP -			Sentinel-3-OLCI Sentinel-3-SLSTR					Version:04 - 2022/10/13						
		Swath:100	km; Revisit:5d	Swath:185km;	Orbit H: 628,6 km					Swath:12km; Revisit:2d.									00km;Revis	it:2d	*This whole table					
WaveLenght			Sentinel-2A (~2	Res:15-60m						3 e 4	Resolution: 0.5m / 2m						Resolution	on:300m	Resoluti	on:500/100	00m	is under				
_		#order	\ ,			(2013-05-30+)					(2014+)								(2016-01-16+)				tests / verification*			
																		W 1 B50		(0			COMMENTO	
(nm)	TYPE	BAND #order:	Min	Max.	RES: m	BAND #order:	Min. Max	RES:	WPM 2 - 8m	MUX 17m	WFI 55m	Min	Mov	IDEM 5-80m	BAND	Min May	RES:	BAND	Wave L.	RES:	BAND	Min Max	BAND	Central	IER	COIMMENTS: Purposes (S2/L8/S3):
400	Aerosol	#Oluel.	IVIIII.	IVIAX.	111	#Oldel.	IVIIII. IVIA)	. 111	31d	31d	5d	IVIIII.	IVIAX.	26-5d	DAIND	IVIIII IVIAX	m	B1	403-423	5	BO1	IVIIII. IVIQA.	DANU	W.L.	ILK	//Coastal aerosol, correction
420	Aerosol								92Km	95Km			-	20-3u 60-866km		=CBERS		B2	433-453	5	B02	392,5 407,5 407,5 417,5	5			//Yellow subs.,detrital pig. (turbidity)
440		#12-B01	432,2	453,2	60	#3-B01	433 45	30	B0-PAN	95KIII	004N	450	000	00-000KIII	B0-PAN	450 890	0.5	B0	450-800	5	B03		5	1		Aerosol//Chlorophyll abs., vegetation
460	Aerosol	#12-B01 #1-B02	452,2	525,4	10	#3-B01 #2-B02	450 5	15 30	B1-B	B05	D12	450	520		B1	450 520	0,5	B3		5	B04	437,5 447,	reflect			. , . ,
530	*BLUE*	#1-002	409,4	525,4	10	#1-B08-PAN	500 68		DI-D	Б03	ыз	430	320		ы	450 520		B7	450-515 485-495	10	B05	485 499	500m			SoilxVeg.,water/Bathym./Chlorophyll MAX.
560	*****	#3-B03	541.8	F77.0	10	#1-B00-PAN #6-B03		30 15	D0 0	B06	D44	520	F00		D0	500 500	_	B4		5	B06	505 51	5 500m	554.07		//Chlorophyll, sedim., turbid., red tide
590	*GREEN*	#3-003	541,0	577,8	10	#0-003	525 60	30	B2-G	B00	Б14	520	590		B2	520 590	2	B8	525-600	10	D00	555 56	5 31	554,27	1	Turbidity,oil//Chlorophyll MIN.
600													-					B5	615-625	5	B07					L-8 Panchromatic //
630	+DED+	#5-B04	649.1	680.1	10	#5-B04	630 68	30 30	B3-G	B07	D1E	620	600		B3	C20 C00	2	B9	630-680	10	B08	615 629	S2	050.47	4	//Sediment loading
670	*RED*	#3-604	049,1	000,1	10	#3-604	630 68	30 30	B3-G	B07	ВІЭ	630	090		БЗ	630 690	2	B14	650-680	20	B09	660 670	32	659,47	1	Soil,veg//2nd Chl.MAX,sedim.,yellow subs.
690																			660-670		B10	670 677,	5			//Improved fluorescence,Surface Mix.Layer
700	D. dEd.	#6-B05	606.6	711.6	20													B15 B10	678-685	20 10	B10	677,5 688	5	-		//Chlorophyll fluorescence peak
740	RedEdge	#8-B05	696,6	711,6				-											699-719			703,75 713,7	5	-		Vegetation//Chl.fl.basel.
	RedEdge	#8-806	733	748	20			-					-					B11	733-748	10	B12	750 757,	5	-		Vegetation//O2 abs.,clouds,veg.
760	RedEdge							-					_					B16	750-758	20	B13	760 762,	5	1		//O2 abs.,clouds,veg.;aerosol corr.
765	RedEdge																	B17	759-763	20	B14	762,5 766,2	5			//Atmospheric correction
767	RedEdge	#0 D0=		700.0	20					500	D.10	770	000		D / 111D			B12	773-793	10	B15	766,25 768,7	5			//Cloud top press.,fluore.over land
780	NIR	#9-B07	772,8	792,8	20				B4-N	B08	B16	770	890		B4-NIR	770 890	2	B6	785-900	5	B16	771,25 786,2	5			Vegetation//Atmos.corr.
830	NIR	#2-B08	779,8	885,8	10			-																		Vegetation
860	NarrNIR	#10-B8A	854,2	875,2	20	#4-B05	845 88	35 30										B13	855-875	20	B17	855 879	5 S3	868	1	Vegetation//Atmos.aeros.corr.,clouds
880								_										B18	935-955	20	B18	880 89	0			Vegetation//Water vapour reference; SLSTR
900																		B19	1000-1040	20	B19	895 90	5			//Water vapour abs.,Veg.(max.reflect.)
940	SWIR	#13-B09	935,1	955,1	60													SW1	1195-1225	100	B20	930 95	0			//Water vapour abs.,Atmos.aeros.corr.
1300	SWIR	#4-B10	1358	1389	60	#9-B09	1360 139	30										SW2	1360-1390	100	B21	1000 104	0 S4	1374,8	3	Cirrus cloud detection//Atmos.aeros.corr.
1600	SWIR	#7-B11	1568,2	1659,2	20	#8-B06	1560 166	30				1550	1750	SWIR1				SW3	1550-1590	100			S 5	1613,4	3	Snow/ice/cloud disc>0.025;moist.soil-veg.//
2200	SWIR	#11-B12	2114,9	2289,9	20	#7-B07	2100 230	60				2080	2350	SWIR2				SW4	1610-1690	100			S6	2250,7	3	Fire/Snow/ice/cloud>0.015;moist.soil-veg.//
+	IR																						S7/F1	3742	.001	// IR 1km
+	THERMAL					#10-B10	TIRS1	100				10400	12500	Thermal				MW	3700-4950	150			S8/F2	10850	.001	/Thermal map, soil moist/
+	THERMAL					B11	TIRS2	100										LW	7500-13500	150			S9	12020,5	.001	/Improved thermal map/
	FFSET TIME		B02-B12: 2.09s 12 tracks				0.96s / 14 tracks (FPM)																			
INDIC	ES FORM	IULAS - (JLAS - CONVERSION:								R,G,B,NIR only:										NOTES - Purposes:					
NDVI (N	IDNR)		(B08+B04)		(B05-B04)/(B05	(N-R)/(N+R) // SimpleDiff.: N/R (DVI)								(B17-B08)/(B17+B08)			Normalized Difference Vegetation Index									
Burn Ra	Burn Ratio (B08-B12)/(B						(B05-B07)/(B05+B07)											Convert according to			(B08-S6)/	(B8+S6)	Vegetation			
NDMI		(B08-B11)	/(B08+B11)			(B03-B05)/(B03									Sentinel 1 or 3			(B06-B17)/(B06+B17)	Water on Leaves						
NDWI (I			08)/(B03+B08)			(B03-B05)/(B03+B05)			(G-N)/(G+N) // SimpleDiff.: G/N											(B06-B17)/(B06+B17)	Water Bodies: Normalized Difference Water Index			erence Water Index	
NDSI	NDSI (B03-B11)/(B03+B11)					(B03-B06)/(B03+B06)																	Cut mask near (S2NDSI>0.2 & B03>0.15)			B03>0.15)
GEOAlt	GEOAlteration B11/B12					B06/B07														B20/B21		Geology				
FeOx						B06/B05													B20/B17		Geology					
IOx (R/E				B04/B02			R/B	R/B								B08/B04			Geology:							
Clouds			3 B09>0.1 B10>0.01					G > .3(?)													Clouds(a	ny)				
Brovey(Brovey(Sharp)									BROVEY PAN = ((R;G;B;N)/(R+G+B+N))*PAN											Simple Color Sharpening or Par			n-Sharpening		
BAND	COMBIN	IATIONS:	NS: S-2 SENTINEL			LANDSAT-8-OLI			CBERS04A - INPE: 3 / 4 / 4A SKYMAP50-SV1								JL1GP - CGSat Sentinel-3-OLCI						Sources:			
NATUR	NATURAL		B04*3, B03*3, B02*3			B04*3, B03*3, B02*3			R, G, B								(B08+B09+B10)*1, B06			9+B10)*1, B06*3	, (B04+B05)*1.5			https://www.usgs.gov/faqs/what-are-best-landsat-sp		
FALSE	FALSE NIR (RED VEG)) B08*2,B04*3,B03*3			B05*2,B04*3,B03*3			N, R, G (~R, N, G) N, G, B								,			08+B09+B10)*1	, (B04+B0)5)*1.5	https://en.wikipedia.org/wiki/Sentinel-2			
	NATURAL ENHANCED					B04*3,B03*2+B05*.5,B02*3			IOX(R/B), N, G N, G, IOX(R/B)											(B08+B09+B10)*1+B11*.3, B06*2+(B16+B18)*.5, (B04+B05)*1.5				nttps://www.sentinel-hub.com/develop/documentation		
	FALSE COL. URBAN - SWIR					B07*2,B06*3,B04*3			_ ` _ '	N, NDRG((R-G)/(R+G)), B								Sentinel 1 or 3			200-200-210/ 1-211 .0, 200 2-(210-210) .0, (204+200) 1.0				https://sentinel.esa.int/web/sentinel/technical-guides	
	F.SWIR-NIR (SWIR)					B07*3,B05*3,B04*3			DVI(N/R), G, B																https://sentinel.esa.int/web/sentinel/user-guides/sen	
	FALSE COL.GEOLOGY					B07*3.B04*3.B	- · · · · · · · · · · · · · · · · · · ·																			
	GEOLOGY ENHANCED					B07*2,B04*1.5+B05*0.5,B02*2.8															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 0.06 speed time delay. This time delay creates a small but significant
AGRICULTURE					B07 2,B04 1.5+B05 0.5,B02 2.6 B06*3,B05*3,B02*3			N/G														https://earth.esa.int/web/eoportal/satellite-missions/				
			B11*3,B08*3,B02*3				-																			
BATHYMETRIC			B04*3,B03*3,B01*3			B04*3,B03*3,B	(K-R)/(K-	R-B)/(R+B) IOX(R/B), N, G											(B08+B09+B10)*1, B06*3, (B02+B03)*1.5 http://www2.dgi.inpe.br/catalogo/explore							