MULTI SATELLITE SPECTRAL BANDS CONVERSION TABLE									RGBN								MUL	MULTISPECTRAL							By: @sergioajv1 (Twitter)		
SATELLITE SENTINEL-2-MSI			L-2-MSI	MSI			LANDSAT-8-OLI			CBERS - INPE SKYMAP50-SOAR/S							V1 <mark>JL1</mark>	JL1GP - CGSat			Sentinel-	3-OLCI	Sentinel-3-SLSTR			Version:04	
Swath:10			wath:100l	km; Revisit:5d			Swath:185km;Revisit:16d.			Orbit H: 628,6 km						Swath:12km; Revisit:2d.						Swath:1270	0km;Revisit:4d	Swath:1400km;Revisit:2d			*This whole table
				Sentinel-2A (~2B)			Res:15-60m			4A		۷	Vave		3 e 4	Resoluti	on: 0.5m / 2m					Resolution:	300m	Resolution	:500/1000m		is under
WaveLenght #order (2015-06-			(2015-06-23+)	06-23+)			(2013-05-30+)			(2019-12-20+) Lenght (2014+)					(2013-05-30+)							(2016-01-16+)				tests / verification*	
(nm)			BAND #order:	Min.	Max.	RES: m	BAND #order:	Min. Max.	RES:	WPM 2 - 8m		WFI 55m	Min.	Max.	IDEM 5-80m	BAND		ES: m BA	AND	Wave L. nm	RES:	BAND	Min. Max.	BAND	Central W.L.	MULTIPLI ER	COIMMENTS: Purposes (S2/L8/S3):
400	Aeros	sol								31d	31d				26-5d			E	B1	403-423	5	B01	392,5 407,5				//Coastal aerosol, correction
420	Aeros	sol								92Km	95Km 6	684K			60-866km		=CBERS		B2	433-453	5	B02	407,5 417,5	i			//Yellow subs.,detrital pig. (turbidity)
440	Aeros		12-B01	432,2	453,2	60	#3-B01	433 453	30	B0-PAN			450	900		В0-Р	450 890		B0	450-800	5	B03	437,5 447,5				Aerosol//Chlorophyll abs., vegetation
460	*BLU	E* #	#1-B02	459,4	525,4	10	#2-B02	450 515	30	B1-B	B05	B13	450	520		B1	450 520		B3	450-515	5	B04	485 495	reflect			SoilxVeg.,water/Bathym./Chlorophyll MAX.
530	+005	- 5.14	110 DOO	544.0	577.0	40	#1-B08	500 680	15	D0 0	DOO	D44	500	500		D0	500 500		B7	485-495	10	B05	505 515	500m	554.07		//Chlorophyll, sedim., turbid., red tide
560	*GREI	=N* #	#3-B03	541,8	577,8	10	#6-B03	525 600	30	B2-G	B06	B14	520	590		B2	520 590		B4	525-600	5	B06	555 565	S1	554,27	1	Turbidity,oil//Chlorophyll MIN.
590 600		-										_		_					B8 B5	615-625 630-680	5	B07	615 625				L-8 Panchromatic // //Sediment loading
630	*REI	)*   #	#5-B04	649,1	680,1	10	#5-B04	630 680	30	B3-G	B07	B15	630	690		B3	630 690		вэ В9	650-680	10	B08	660 670	S2	659,47	1	Soil,veg//2nd Chl.MAX,sedim.,yellow subs.
670	KLI	"	+J-D04	043,1	000,1	10	#3-004	030 000	30	D3-G	507	ы	000	030		БЭ	030 030		314	660-670	20	B09	670 677,5	- 52	033,41	<u>'</u>	//Improved fluorescence, Surface Mix.Layer
690	+	-										_		-					315	678-685	20	B10	677,5 685				//Chlorophyll fluorescence peak
700	RedEd	dae #	#6-B05	696,6	711,6	20													310	699-719	10	B11	703,75 713,75				Vegetation//Chl.fl.basel.
740	RedEd		#8-B06	733	748	20						_		_				_	311	733-748	10	B12	750 757,5				Vegetation//O2 abs.,clouds,veg.
760	RedEd	_																	316	750-758	20	B13	760 762,5				//O2 abs.,clouds,veg.;aerosol corr.
765	RedEd	ige																В	317	759-763	20	B14	762.5 766.25				//Atmospheric correction
767	RedEd	dge																В	312	773-793	10	B15	766,25 768,75	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 E	B6	785-900	5	B16	771,25 786,25				Vegetation//Atmos.corr.
830	NIR	#	#2-B08	779,8	885,8	10																					Vegetation
860	NarrN	IIR #1	10-B8A	854,2	875,2	20	#4-B05	845 885	30									В	313	855-875	20	B17	855 875	S3	868	1	Vegetation//Atmos.aeros.corr.,clouds
880																		В	318	935-955	20	B18	880 890	)			Vegetation//Water vapour reference; SLSTR
900																		В	319	1000-1040	20	B19	895 905	i			//Water vapour abs.,Veg.(max.reflect.)
940	SWII	R #	13-B09	935,1	955,1	60												S	W1	1195-1225	100	B20	930 950				//Water vapour abs.,Atmos.aeros.corr.
1300	SWII	R #	#4-B10	1358	1389	60	#9-B09	1360 1390	30									S	W2	1360-1390	100	B21	1000 1040	S4	1374,8	3	Cirrus cloud detection//Atmos.aeros.corr.
1600	SWII	_	#7-B11	1568,2	1659,2	20	#8-B06	1560 1660	30				1550	1750	SWIR1			S	W3	1550-1590	100			S5	1613,4	3	Snow/ice/cloud disc>0.025;moist.soil-veg.//
2200	SWII	R #	11-B12	2114,9	2289,9	20	#7-B07	2100 2300	60				2080	2350	SWIR2			S	W4	1610-1690	100			S6	2250,7	3	Fire/Snow/ice/cloud>0.015;moist.soil-veg.//
		_																						S7/F1	3742	.001	// IR 1km
							#10-B10	TIRS1	100				10400 1	12500	TH				ΛW	3700-4950	150			S8/F2	10850	.001	/Thermal map, soil moist/
							B11	TIRS2	100										_W	7500-13500	150			S9	12020,5	.001	/Improved thermal map/
BAND (	OFFSET	TIME:		B02-B12: 2.09s 12 tracks			0.96s / 14 tracks (FPM)																				
INDICES CONVERSION:										R,G,B,NIR only:									(FOLLOW SENTINEL-2 COMPOS)				NOTES:				
NDVI (N	NDNR)	(B	808-B04)/	4)/(B08+B04)			(B05-B04)/(B05+B04)			(N-R)/(N+R) // SimpleDiff.: N/R (DVI)								(B17-B08)/(B1			, ,			Index			
Burn Ra	Burn Ratio (B08-B1)		808-B12)/	12)/(B08+B12)			(B05-B07)/(B05+B07)														(B08-S6)/(B	38+S6)	Vegetation				
NDMI	NDMI (B08-B1		808-B11)/	11)/(B08+B11)			(B03-B05)/(B03+B05) (B03-B05)/(B03+B05)														(B06-B17)/	(B06+B17)	Water on Leaves				
				808)/(B03+B08)				(G-N)/(G+N) // SimpleDiff.: G/N											(B06-B17)/	(B06+B17)	Water Bodies: Normalized Difference						
NDSI				11)/(B03+B11)																	Cut mask near (S2NDSI>0.2 & B03>0.			3>0.15)			
	GEOAlteration B11/B12						B06/B07														B20/B21		Geology				
FeOx			11/B08				B06/B05 B04/B02														B20/B17		Geology				
				- Alternative: B05/B01				R/B	R/B							_				B08/B04		Geology: Iron Oxide Index R/B					
Clouds	" "						G > .3 (?)	- 10(1)											<b>I</b>		Clouds(any)						
Brovey	Brovey(Sharp) Br1;2;3 : Bx / (B04+B03+B02)								B ( 1 to 4 ) / (B1+B2+B3+B4) // *B0(PAN)							_						Simple Color Sharpening or Pan-Sh					
BAND		ATIONS	S: S-2 SI	2 SENTINEL			LANDSAT-8-OLI				CBERS04A - INPE: 3 / 4 / 4A SKYMAP50-SOAR/SV1											Sentinel-3-OLCI					Sources:
	NATURAL			B04*3, B03*3, B02*3			B04*3, B03*3, B02*3			R, G, B											(B08+B09+B10)*1, B06*3, (B					https://www.usgs.gov/faqs/what-are-best-landsat-spect	
	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										B17*2, (B08+B09+B10)*1, (I			,			https://en.wikipedia.org/wiki/Sentinel-2
	NATURAL ENHANCED			B04*2+B05*.2,B03*2+B08*.4,B02*4			B04*3,B03*2+B05*.5,B02*3			IOX(R/B), N, G N, G, IOX(R/B)											(B08+B09+B	10)*1+B11*.3, B06*2	2+(B16+B18)*.5, (B04+B05)*1.5			https://www.sentinel-hub.com/develop/documentation/e	
	FALSE COL. URBAN - SWIR		SWIR	4 4 4 4			B07*2,B06*3,B04*3				N, NDRG((R-G)/(R+G)), B																https://sentinel.esa.int/web/sentinel/technical-guides/se
	F.SWIR-NIR (SWIR)			B12*3,B8A*3,B04*3			B07*3,B05*3,B04*3			DVI(N/R), (	DVI(N/R), G, B																https://sentinel.esa.int/web/sentinel/user-guides/sentine
	FALSE COL.GEOLOGY			B12*3,B04*3,B02*3			B07*3,B04*3,B02*3																				leading and trailing bands.
GEOLO	GEOLOGY ENHANCED		D	B04*1+B12*1.5,B05*1.5+B08*0.5,B02*2.8			B07*2,B04*1.5+B05*0.5,B02*2.8															B20*.15+B	08*1.7,B06*1.6+B1	17*.2,B04*2-B21*.1			parallax effect
AGRIC	AGRICULTURE			B11*3,B08*3,B02*3			B06*3,B05*3,B0	N/G	N/G																https://earth.esa.int/web/eoportal/satellite-missions/con		
BATHY	BATHYMETRIC			B04*3,B03*3,B01*3			B04*3,B03*3,B0	(R-B)/(R+B	R-B)/(R+B) IOX(R/B), N, G											(B08+B09+B10)*1, B06*3, (B02+B03)*1.5				http://www.cbers.inpe.br/sobre/cameras/cbers04a.php			
							,,																		http://www2.dgi.inpe.br/catalogo/explore		
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