SATELLITE SPECTRAL BANDS - CONVERSION TABLE By: @sergioajv1 (Twitter)																											
SATELLITE SENTINE								SkyMap50-SOAR NPE-CBERS								LANDSAT-8-OLI				Sentin	el-3-OLCI	S	entine	el-3-SLSTR		Version:02	
			00km;Revisit:5				Swath:12k				Orbit H: 628,6 km						Swath:185km;Revisit:16d.				Swath:1270km;Revisit:4d			400km;Revisit:2d		*This whole table	
		Sentine		Sentinel-2B			Resolution:PAN 0.5m / MS 2m							Resolution:15-60m			Resolution:300m			Resolution:500/1000m			is under				
WaveLenght #order		(2015-0		(2017-03-07+)			(2013-05-30+)			4A 3e4				(2013-05-30+)			(2016-01-16+)						work / verification*				
(nm)		BAND	Min	Wave L. Max.	Min.	Central W.L. Max.	Sp. Res	BAND*	Min. I	Sp. Max. Res	WPM 31d	MUX 31d	WFI 5dias		Min.	Max.	BAND*		Wave L.	Sp Max. Res		Wave	мах. Е	BAND	Central Min. Wave L. Max	MULTIP	COIMMENTS: Purposes (S2/L8/S3):
400	Aerosol			- · · · · · · · · · · · · · · · · · · ·		- Inga					2-8m	17m	55m	40-80m							B01	392,5 400	407,5			LILIX	//Coastal aerosol, correction
420	Aerosol										92Km	95Km	684Km	120km							B02	407,5 412,5					//Yellow subs.,detrital pig. (turbidity)
440	Aerosol	#12-B01	432,2	442,7 453,	_		60	B0-P	450	890 0,5	B0-P			IDEM	450	900	#3-B01	433	443	453 30		437,5 442,5	- / '				Aerosol//Chlorophyll abs., vegetation
460	*BLUE*	#1-B02	459,4		459,		10	B1	450	2	B1	B05	B13		450		#2-B02	450	482,5	515 30		485 490		eflect			SoilxVeg.,water/Bathym./Chlorophyll MAX.
530	*****	#2 D02		525,		525,	10	D0		520	D0	Doc	D4.4			520	#1-B08	500	PAN	680 15	B05	505 510		500m	FF 4 07		//Chlorophyll, sedim., turbid., red tide
560	*GREEN*	#3-B03	541,8		54	559	10	B2	520	2	B2	B06	B14		520	590	#6-B03	525	562,5	600 30	B06	555 560	565	S1	554,27	1	Turbidity,oil//Chlorophyll MIN. L-8 Panchromatic //
590 600				577,	8	57				590						590					B07	615 620	606				L-8 Panchromatic // //Sediment loading
630	*RED*	#5-B04	649,1		649.4	Δ	10	В3	630	2	В3	B07	B15		630		#5-B04	630	655	680 30	B08	660 665	670	S2	659,47	1	Soil,veg//2nd Chl.MAX,sedim.,yellow subs.
670	TLED	## 2 0.	040,1	664.6	040,	664.9			000						000			000		000	B09	670 673,75	677.5		000,11	1	//Improved fluorescence,Surface Mix.Layer
690				680.	1	680,	4			690						690					B10	677.5 681,25	685				//Chlorophyll fluorescence peak
700	RedEdge	#6-B05	696,6	704,1 711,	6 695,	8 703,8 711,	20														B11	703,75 708,75	713,75				Vegetation//Chl.fl.basel.
740	RedEdge	#8-B06	733	740,5 74	8 731,	6 739,1 746,	20														B12	750 753,75					Vegetation//O2 abs.,clouds,veg.
760	RedEdge																				B13	760 761,25	762,5				//O2 abs.,clouds,veg.;aerosol corr.
765	RedEdge																				B14	762,5 764,38					//Atmospheric correction
767	RedEdge	#0 D0T		700.0		770 7	00						D 10								B15	766,25 767,5					//Cloud top press.,fluore.over land
780	NIR	#9-B07	772,8	782,8 792,			20	B4 NIR	770	2	B4	B08	B16		770						B16	771,25 778,75	786,25				Vegetation//Atmos.corr.
830	NIR	#2-B08 #10-B8A	779,8	832,8 885, 864,7 875.		. ,	10	NIK			NIR						#4-B05	0.45	865	20	B17	855 865	070	S 3	868	1	Vegetation
860 880	NarrNIR	#10-D0A	854,2	004,7 875,	2 85	3 004 87	20			890						890	#4-605	845	000	000	B18	855 865 880 885	875	33	000	1	Vegetation//Atmos.aeros.corr.,clouds Vegetation//Water vapour reference; SLSTR
900										890						090				883	B19	895 900	006				//Water vapour abs.,Veg.(max.reflect.)
940	SWIR	#13-B09	935.1	945,1 955.	1 932,	7 943.2 953.	60														B20	930 940	950				//Water vapour abs.,Atmos.aeros.corr.
1300	SWIR	#4-B10	1358	1373,5 138		9 1376,9 1391,	60										#9-B09	1360	1375	1390 30		1000 1020	1040	S4	1374,8	3	Cirrus cloud detection//Atmos.aeros.corr.
1600	SWIR	#7-B11		1613,7 1659.		4 1610,4 1657,	20							SWIR1	1550	1750	#8-B06	1560	1610	1660 30				S5	1613,4	3	Snow/ice/cloud disc>0.025;moist.soil-veg.//
2200	SWIR	#11-B12	2114,9	2202,4 2289,	9 2093,	2 2185,7 2278,	20							SWIR2	2080		#7-B07	2100	2200	2300 60				S6	2250,7	3	Fire/Snow/ice/cloud>0.015;moist.soil-veg.//
																									1km/IR		
																								S7/F1	3742	.001	
														TH	10400		#10-B10	TIRS1		100)			88/F2	10850	.001	/Thermal map, soil moist/
																12500	B11	TIRS2		100)			S9	12020,5	.001	/Improved thermal map/
BAND (OFFSET	TIME:	B02 to	B12: 2.09s / 12	2 tracks	3												0.96s / 1	14 tracks (FPM)							
INDICE	S CONVI	ERSION:																					D	escrip	tion: Note	: under t	estings
NDVI				04)/(B08+B04)				B4/B3			B4/B3								4)/(B05+E			(08)/(B17+B08)					
NDWI1				11)/(B08+B11)		: Leaves													5)/(B03+E			17)/(B06+B17)		Leave			
NDWI2				08)/(B03+B08)		: Water bodies		B2/B4			B2/B4								5)/(B03+E		(B06-E	17)/(B06+B17)			bodies		
NDSI	NDSI		(B03-B11)/(B03+B11) & B03>0.15) OPT:SOFT=(S2NDSI<0.55 & B03<0.4)													(B03-B06)/(B03+B06)							(S2NDSI>0.2 & B03>0.15) OPT:SOFT			F1=(S2NDSI<0.55 & B03<0.4)	
CEOA	teration	(S2NDSI>0.2	& B03>0.19 B11/B1		IDSI<0.55	5 & B03<0.4)												B06/B07	7		B20/B2	01	_				
	teration		B11/B1															B06/B07			B20/B2						
FeOx IOx (R/	R)		B05/B0		native.	B04/B02		B3/B1			B3/B1							B04/B02			B08/B0		_				
Brovey	,	Br1;2;3:		3; B02 / (B04-					(B3+B2+E	31)		1(B3+B2-	-B1)					504/502	•		DOOID	, i	N	IR:RF	D;GREEN/(NIR+RE	D+GRF	EN)
Burn R		,=,		12)/(B08+B12)		- 1		-,,-	,	,	-,,-	, 32	-,					(B05-B0	7)/(B05+E	307)	(B08-S	66)/(B8+S6)	f	.,	,	J. 12	,
Clouds			(B02>.3	B) OR (B10>0.	01) ~ A	NY CLOUDS												,	/ \	,		, ,					
			(B02>.	(& B10>0.02)	~CIRR	US																					
BASIC	BAND C	OMBINATIO	NS AN	CONVERSIO	NS -	Note: for each	new in	nage may	have to	adjust va	lues and/	or set ad	ditional	bands for	better i	results	;										Sources:
				IAL COMBINA				SkyMap5			CBERS						LANDSAT-8-0	OLI			Sentin	el-3-OLCI					https://www.usgs.gov/faqs/what-are-best-lan
NATUR			B04*3, B03*3, B02*3					B3, B2, B				B3, B2, B1					B04*3, B03*3, B02*3				(B08+B09+B10)*1, B06*3, (B04+B05)*1.5						https://en.wikipedia.org/wiki/Sentinel-2
	NH.(MARI	(USE)	B04*2+B05*.2,B03*2+B08*.4,B02*4									=SkyMap50 (B,G,R,NIR)					B04*3,B03*2+B05*.5,B02*3				(B08+B09+B10)*1+B11*.3, B06*2+(B16+B18)*.5,)4+B05)*1.5		https://sentinel.esa.int/web/sentinel/technical
	NIR (RED		B08*2,B04*3,B03*3					B4, B3, B2			B4, B3, B2					B05*2,B04*3,B03*3				_	308+B09+B10)*1, (B04+E			,		https://www.sentinel-hub.com/develop/docur	
	FALSE SWIR (URBAN)		B12*2,B11*3,B04*3					5., 50, 52			-, -0, -0					B07*2,B06*3,B04*3				- / (-	7 77 71					https://sentinel.esa.int/web/sentinel/user-guid	
	R-NIR (SW		B12*3,B8A*3,B04*3												B07*3,B05*3,B04*3										*L8:The along-track spectral band separation		
	COL.GE		B12*3,B04*3,B02*3											B07*3,B04*3,B02*3										This time delay creates a small but significan			
	BATHYMETRIC		B04*3,B03*3,B01*3														B04*3,B03*3,B01*3				(B08+B0	(B08+B09+B10)*1, B06*3, (B02+B03)*1.5					https://earth.esa.int/web/eoportal/satellite-mi
	AGRICULTURE		B11*3,B08*3,B02*3											B06*3,B05*3,B02*3					000TD03TD10/ 1, 000 3, (002TD03/ 1.3					http://www.cbers.inpe.br/sobre/cameras/cber			
GEOLOGY ENHANCED		B12*1,5+B04*1,B05*1,5+B08*0,5,B02*2,8												B07*2,B04*1.5+B05*0.5,B02*2.8				R20* 15.	B20*.15+B08*1.7,B06*1.6+B17*.2,B04*2-B21*.1					http://www2.dgi.inpe.br/catalogo/explore			
SLULUGI ENMANGED		D1Z 1.3+DU4 1,DU3 1.3+BU8"U.3,BUZ"Z.8														DU1 2,DU7 1.0		,,,,,,,,,		DZU . 151		,bU4 Z-DZ	1.1			Trup.// TYWWZ.ugi.iiipo.bi/catalogo/oxpi018	