




































			TERRESTRIAL REMOTE SENSING - MAPPING CAPABILITY MATRIX													
			CSER 23 April 2010													
			Table Key: O= operational, O\$ = operational but cost prohibitive, f = feasible but not operational, nf =not feasible, fp=partly feasible, OE=possible if extent is bigger then several pixels													
SENSOR Type Platform				Passive						Active			Field			
				Multi-spectral			Hyper-spectral			Photo graph	Radar		Laser	Visual		
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne	Car	Field Instrument	Visual assessment
PIXEL SIZE < 5m, Medium 5 m - 100 m, Coarse 100 m >			Fine	Fine	Medium	Fine	Medium	Coarse	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Parameter and environment																
Composition	Land-cover			O	O	O	O\$	O\$	OE	O	O\$	O	fp	O	O\$	O\$
	Land-use			O	O	O	O\$	O\$	OE	O	O\$	O	fp	O	O\$	O\$
Biophysical	Cover	Vegetation cover (woody)		O	O	O	O\$	O\$	O	O	O	O	fp	O	O\$	O\$
		Vegetation cover (grass)		O	O	O	O	O	O	O	O	O	fp	O	O\$	O\$
		Foliage projected cover		O	O	O	O	O	OE	O	O	O	f	nf	O\$	O\$
		Bare ground cover		O	O	O	O	O	O	O	O	O	f	O	O\$	O\$
		Tree density		O	O	nf	O	f	nf	O	O	f	O	nf	O\$	O\$
	Vegetation Structure	Tree height		nf	nf	nf	O\$	nf	nf	O	O	O	O	nf	O\$	O\$
		Above-ground Biomass		O	O	O	O\$	O	O	f	O	O	f	nf	nf	O\$
		Leaf Area Index		O	O	O	O\$	O	f	nf	O	O	O	nf	O\$	O\$
		Basal area		f	f	f	O\$	f	nf	f	f	O	O	nf	O\$	nf
		Crown and Gap widths		O	O	f	O	f	nf	O	O	f	O	nf	O\$	nf
	Vegetation Chemistry	Absorbed Photosynthetically Active Radiation		O	O	O	O	O	O	nf	nf	nf	nf	nf	O\$	nf
		Foliar chemistry		nf	nf	nf	O	O		nf	nf	nf	nf	nf	O\$	nf
		Foliar mositure content		O	O	O	O	O	O	nf	f	f	nf	nf	O\$	nf
	Fire	Fire fuel load		O	O	O	O	O	OE	f	f	f	f	f	O\$	f
		Fire scars		O	O	O	O	O	OE	O	O	O	f	f	nf	f
		Active fires		O	O	O	O	O	O	nf	nf	nf	nf	f	nf	f
	Soil	Mineralogy		f	f	f	O	O	f	nf	nf	nf	nf	nf	f	f
		Moisture		O	O	O	O	O	O	nf	O	O	nf	nf	f	nf
		Particle size distribution		nf	nf	nf	nf	nf	nf	nf	fp	fp	nf	nf	O\$	f
	Surface properties	Water bodies		O	O	O	O	O	O	O	O	O	O	O\$	nf	f
		Albedo		O	O	O	O	O	O	nf	nf	nf	f	nf	O\$	nf
	Snow	Extent		O	O	O	O	O	O	O	O	O	nf	nf	nf	nf
		water equivalent		f	nf	nf	f	f	nf	nf	O	O	nf	nf	f	nf
		grain size		f	O	O	f	f	O	nf	O	O	nf	nf	f	nf
Topography	Terrain height (* if stereo images)			O*	O*	O*	O*	O*	O*	O*	O	O	O	nf	O\$	nf
	Ground height (* if stereo images)			O*	O*	O*	O*	O*	O*	O*	O	O	O	nf	O\$	nf
	Slope and Aspect (* if stereo images)			O*	O*	O*	O*	O*	O*	O*	O	O	O	nf	O\$	nf



# TERRESTRIAL REMOTE SENSING - MAPPING CAPABILITY MATRIX

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PIXEL SIZE < 5m, Medium 5 m - 100 m, Coarse 100 m >			Fine	Fine	Fine	Medium	Fine	Medium	Coarse	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Parameter and environment																
Riparian vegetation	Stream-side vegetation	Plant Projective cover		O	O	OE	O\$	OE	nf	nf	OE	OE	O	nf	O\$	fp
		Longitudinal continutiy		O	O	OE	O\$	OE	nf	fp	OE	OE	O	nf	O\$	O
		Riparian zone width		O	O	nf	O	nf	nf	f	fp	fp	O	nf	O\$	nf
		Vegetation height		nf	nf	nf	nf	nf	nf	nf	OE	OE	O	nf	O\$	fp
		Number of Large Trees		nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	O\$	O\$
		Vegetation overhang		fp	fp	nf	fp	nf	nf	fp	nf	nf	O	nf	O\$	fp
		Canopy weeds		fp	nf	nf	fp	nf	nf	fp	nf	nf	nf	nf	O\$	O\$
		Bare ground cover		O	O	nf	O	nf	nf	f	nf	nf	nf	nf	O\$	O\$
	Physical properties	Streambed width		fp	fp	nf	fp	nf	nf	fp	nf	nf	O	nf	O\$	fp
		Bank full width		nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	O\$	nf
		Bank condition		nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	O\$	O\$
		In-stream large wood		fp	nf	nf	fp	nf	nf	fp	nf	nf	nf	nf	O\$	O\$
		Water bodies		fp	fp	nf	fp	nf	nf	fp	f	f	f	nf	O\$	O\$
		Bank slope		nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	O\$	fp
		Bank profile		nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	O\$	fp