

Table 1. RELAB, USGS, and ECOSTRESS Specific References

Name	Original Database	Reference Number
(1)	(2)	(3)
Database: Hammond et al. (2025) (H25)		
Tholeiitic Basalt	RELAB	RB-CMP-037, c1rb37, bir1rb037
Alkaline Basalt (large)	RELAB	AN-G1M-008-C, c2an08c, bir1an008c
Alkaline Basalt (small)	RELAB	AN-G1M-008-B, c1an08b, bir1an008b
Trachybasalt	RELAB	AN-G1M-005-B, c1an05b, bir1an005b
Tephrite	RELAB	AN-G1M-006-B, c1an06b, bir1an006b
Andesite	RELAB	AD-REA-003-W, cwad03, n1ad03w
Phonolite	RELAB	AN-G1M-012-B, c1an12b, bir1an012b
Trachyte	RELAB	AN-G1M-018-B, c1an18b, bir1an018b
Rhyolite	RELAB	AN-G1M-010-A, c1an10a, bir1an010a
Gabbro	RELAB	HK-HIT-001, c1hk01, bir1hk001
Norite	RELAB	AN-G1M-019-B, c1an19b, bir1an019b
Diorite	RELAB	AN-G1M-017-A, c1an17a, bir1an017a
Granite	RELAB	AN-G1M-011-A, c1an11a, bir1an011a
Harzburgite	RELAB	FB-JFM-040-P, cpfb40, nafb40p
Lherzolite	RELAB	FB-JFM-008-P, cpfb08, nafb8p
Basalt glass	RELAB	BE-JFM-060, c1be60, bir1be060
Basalt tuff	RELAB	BU-WHF-030, c1bu30, bir1bu030
Lunar mare basalt	RELAB	LS-CMP-001, n1ls01, s1ls01
Lunar anorthosite	RELAB	LR-CMP-224, c1lr224, bir1lr224
Mars Basaltic shergottite	RELAB	DD-MDD-028, c1dd28, bir2dd028
Mars breccia	RELAB	MT-JFM-263, camt263, biramt263
Albite (dust)	RELAB	albite_ALI
Magnesium sulfate	RELAB	CC-JFM-019, c1cc19, s1cc19
Pyrite	RELAB	pyrite_SA-25G
Hematite	RELAB	hematite_SA-500G
Database: Goodis Gordon et al. (2025) (GG25)		
Deciduous	ECOSTRESS	Vegetation, tree, unknown, unknown, all, deciduous, jhu, becknic
Coniferous	ECOSTRESS	Vegetation, tree, unknown, unknown, all, conifer, jhu, becknic
White Fig Tree	ECOSTRESS	Vegetation, tree, abies, concolor, vswir, vh053, ucsb, asd (Meerdink et al. 2016)
Basalt	USGSv7	Fresh Basalt (BR93-46B), rec number 19861, BECKb
Grass	USGSv7	Grass grass.dry.5 + .5green (AMX28), rec number 33987, BECKa
Snow	USGSv7	Melting Snow (mSnw01a), rec number 22557, ASDFRa
Ocean	USGSv7	Seawater Open Ocean (SW2), rec number 22683, BECKc
Sand	USGSv7	Quartz (GDS74 Ottawa), rec number 15488, BECKa

NOTE—Data collected from the RELAB Spectral Database ([Milliken et al. 2021](#)) (See ‘Sample_Catalogue.xls’ on Downloadable Spectral Catalogue page to query specific RELAB reference numbers, spectra are also available on PDS.), NASA JPL ECOSTRESS Spectral Library ([Baldrige et al. 2009](#); [Meerdink et al. 2019](#)), USGS Spectral Library Version 7 ([Kokaly et al. 2017](#)).

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