ET-LF Laser: 1.5μm or 2μm?

	1.5 μm	1.9μm-2.1 μm
seed laser	two options commercially available ✓	lab. prototypes: DBR fiber laser, ECDL, degenerated OPO, NPROs ©
amplifier	two options commercially available ✓	lab. prototypes: Tm fiber amplifier, injection locked cryogenic Ho:YAG ☺ OPOs (planned)
reliability	good performance in prototype ©	no data yet ⊖
free-running noise	good performance in prototype ©	ECDL noise performance is promising, no data for MOPA available yet 😐
stabilization components	mostly available \odot (missing for all wavelength: RIN< 10^{-9} $1/\sqrt{\rm Hz}$ sensor)	limited experience with EOM / AOM / PDs/QPDs, FI ⊕ no high-power photodiodes ⊕
audio band stabilization	2G stability requirements demonstrated in PSL prototype ©	no PSL prototype
f < 100Hz stabilization	needs work	needs work

summary: no show stopper, no commercial $2\mu m$ laser, $2\mu m$ PSL development 5 years behind

Legend: PSL: Pre-Stabilized Laser, DBR: Distributed Bragg Reflector, ECDL: External Cavity Diode Laser, OPO: Optical Parametric Oscillator, MOPA: Master Oscillator Power amplifier, Tm: Thulium, Ho: Holmium