

Table 1: PECAN Lidar Specs

name	platform	PI	Operating Group	Lidar Type	Eye-safe class	Wavelength	Eye-safe distance	Scanning/Fixed
Mobile PISA								
Wind Tracer Lidar	free	Howie Bluestein / Paul Buczynski	NPS	Doppler	1M	2000 nm	Safe to naked eye; Hazardous with optical instruments	scanning
CLAMPS HALO	MP1	Dave Turner, Tim Bonin	OU	Halo Streamline	1M	1500 nm	0 m	scanning
MIPS HALO	MP2	Kevin Knupp	UAH	Doppler	1M	1500 nm	0 m	scanning
SPARC DL	MP3	Wayne Feltz	U Wisc	Halo Streamline	1M	1500 nm	0 m	scanning
Fixed PISA								
ARM DL	FP1	Dave Turner	ARM SPG	Doppler	1M	1500 nm	0 m	scanning
ARM MPL	FP1	Dave Turner	ARM SPG	micro-pulse	ANSI Class II	532 nm	0 m	fixed - up
ARM Raman	FP1	Dave Turner	ARM SPG	Raman	Class IV	355 nm	250 m	fixed - up
ALVICE	FP2	Dave Whiteman	NASA GSFC	Raman	Class IV	355 nm	500 m – trying to reduce this distance	fixed - up
MPL	FP2	Belay Demoz/Ruben Delgado	UMBC	micro-pulse	ANSI Class II	532 nm	0 m	fixed - up
WLS200	FP2	Belay Demoz/Ruben Delgado	UMBC	Doppler	?	355	0	scanning
GLOW	FP2	Bruce Gentry	NASA-GSFC	Doppler		355	~500m	scanning
NPS ceilometer		Qing Wang	NPS	InGaAs diode	1M	910 nm	~10 m	fixed - up
Sigma Space MPL4	FP3	Rich Clark	MU	micro-pulse	ANSI Class II	532 nm	0 m	fixed - up
WLS70	FP3	John Hanesiak	U. Manitoba	Doppler	IEC 60825-1	1540 nm	0 m	fixed - up
Leo 200S	FP6	John Hanesiak	U. Manitoba	Doppler	1M	1540 nm	0 m	scanning
Leo EZ	TBD	Trude Storelvmo	Yale	Leosphere EZ lidar	?	355 nm	0 m	fixed - up
Airborne								
LASE	DC-8	Rich Ferrare	NASA LARC	LASE	Class IV	815 nm	NOHD in Nadir: 6000 m	fixed (nadir and zenith)
WCL-up	UWKA	Zhien Wang	U. Wyo	incoherent backscatter	Class IV	355 nm	65 m	fixed - up
Compact Raman Lidar	UWKA	Zhien Wang	U. Wyo	Raman	Class IV	355 nm	77 m	fixed - down