

THE AIRCRAFT FLEET



UV 18-A Twin Otter



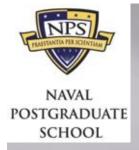
Pelican (2)



Sentry BK 30 UAV (5)



SPA-10



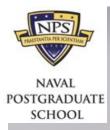
FACILITIES:

Marina Facility

- 3500 ft runway manned operations only
- 30,000 sq ft maintenance hangar
- Instrumentation and Calibration Laboratory
- Maintenance and Payload integration shops
- Offices







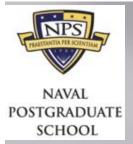
CIRPAS FACILITIES:

Camp Roberts Facility

- Friendly airspace for UAV testing and training (R2503).
- Military ground maneuvers (equipment, personnel)
- 3500 x 60 ft runway
- 2000 sq ft hangar
- Office Space







Twin Otter

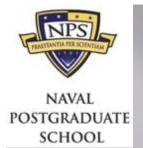








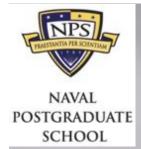
TODWL two axis scanner



CIRPAS Research Instrument Example Smart Towed Vehicle

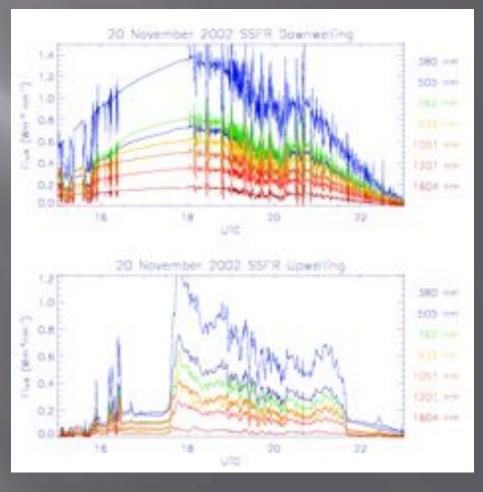


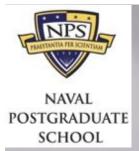




NEW INSTRUMENTATION Stabilized Radiometer Platform



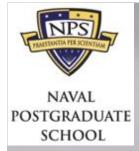




NEW INSTRUMENTATION

MICRO-SIZED AIR-LAUNCHED EXPENDABLE METEOROLOGICAL SENSOR & CHAFF





Storm Penetrating A-10

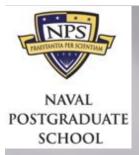


A-10 has 11 hard points on wings and belly where 8000 lbs of instruments may be suspended. It has a belly bay where 2200 lbs of stuff may be mounted

Engineering test flights are planned in mid-year 2013 (including tests of baseline instruments and communication).

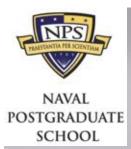
Progressive science flights are planned in latter half of 2013





Storm Penetrating A-10

	SPA-10	Storm T-28
Max sampling altitude	~30,000 to 35,000 ft	23,000 ft
Max on-station time with	~2.75 h at 10,000 to 30,000 ft	~1 h at 20,000 to 23,000 ft
115 mi mission radius		
Payload	2,200 lb internal, 8000 lb external (more if altitude is limited)	500 lb external
Pylons	7 pylons with triple ejector racks plus 4 Additional pylons for a possible total of 25 instrument pods	2 each single pod pylons + 2 modified wingtip instruments
Mission Radius w/ 1h on- station at altitude	400 mi with 1 h at 30,000+ ft	100 mi with ~1 h at 20,000 ft
Ferry Range	1040 mi internal fuel only; 1500 mi with single external tank	500 mi
Payload Power	15 kW AC (fully isolated from aircraft power) from hydraulic generator	2 kW DC (fully isolated from aircraft power) from secondary generator on engine



Sentry Block 30 UAS



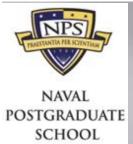
Operational Niche, Key value to warfighter:

- Med Endurance, Med payload platform.
- Small Footprint, Easily transportable, Ruggedized UAV

ensor / Payload Descriptions:

• EO/IR

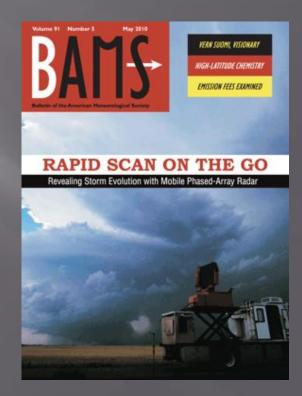


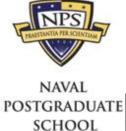


GROUND BASED ASSETS



MWR-05X Mobile Storm Radar





GROUND BASED ASSETS



S-Band Full Phased Array Peak power: 120 KWatts

PRF: 3 kHz

Range Resolution: 150 m

Dwell time (integration time): 250 ms

Scan time: 4 beams per second

TPQ-37 Mobile Weather Radar