

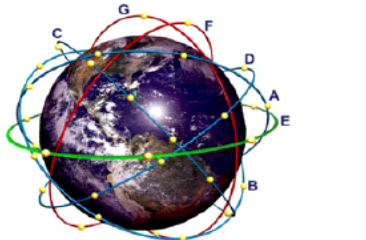
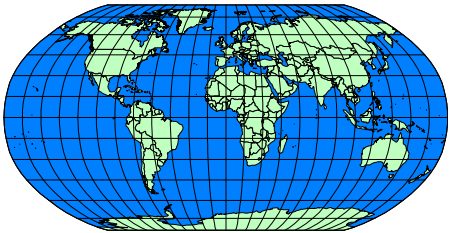
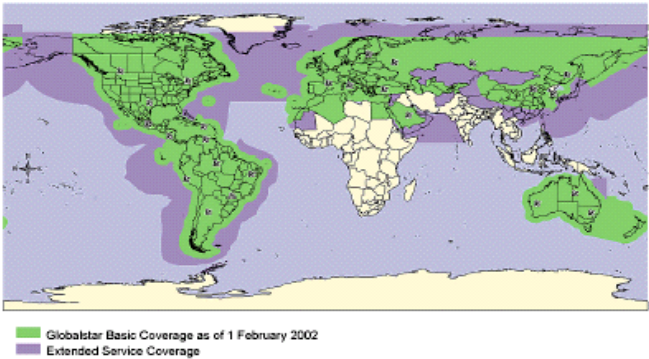
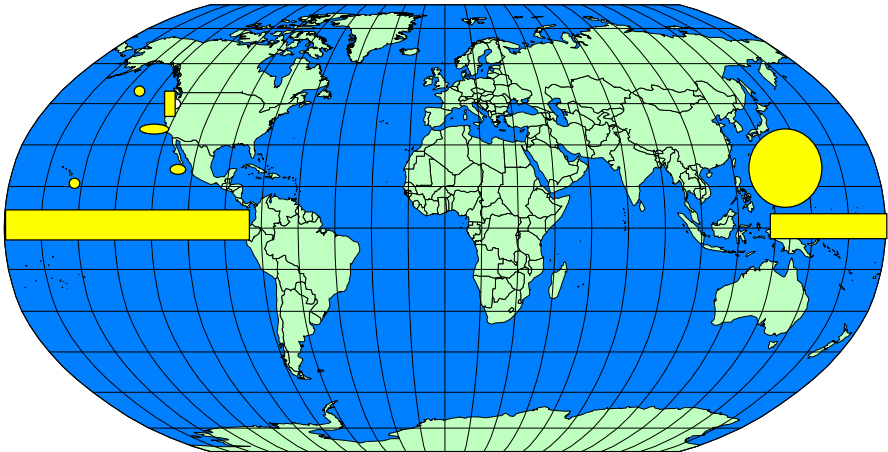
MOOS Deployment locations & wireless comms coverage report

Location	Satellite						Local RF			
	Globalstar	Iridium	Orbcomm	Wavix	GOES	Inmarsat	Freewave	Integra	METEORBURST	RF Industries
· Monterey Bay area and immediately adjacent waters extending out 1000 kilometers (3500m)	yes	yes	yes	yes	yes	yes	some	some	yes	some
· Equatorial pacific	no	yes	yes	yes	some	yes	no	no	no	no
· Northern area of the East Pacific Rise southwest of Mexico's Baja Peninsula	yes	yes	yes	yes	yes	yes	no	no	no	no
· Ocean station "P" at 50N, 145W in the North Pacific (4150m)	yes*	yes	yes	yes	yes	yes	no	no	no	no
· Axial Seamount (1600m)	yes	yes	yes	yes	yes	yes	no	no	yes	no
· Juan De Fuca ridge complex (2500m)	yes	yes	yes	yes	yes	yes	no	no	yes	no
· Gorda ridge (3900m)	yes	yes	yes	yes	yes	yes	no	no	yes	no
· Loihi Seamount, 35 kilometers south east of Hawaii	no	yes	yes	yes	yes	yes	no	no	no	no
· Locations in the western Pacific (5500m)	some*	yes	yes	yes	some	yes	no	no	no	no
· Central pacific gyre area off Monterey Bay (4500m)	yes	yes	yes	yes	yes	yes	no	no	yes	no

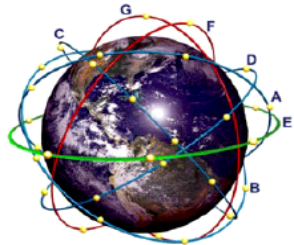
*with extended coverage only

Alternatives considered	Reason for moving on
Store and forward via aircraft/local RF	Data delay, complex
Channel bonding (to increase bandwidth)	
Service bonding (to increase bandwidth)	
ARGOS	Extremely low bandwidth
Cell Phone	Marine coverage
METEOSAT	Information availability (non meteorological data)
Landsat	Information availability
SeaWiF	Information availability
EOS	Information availability
METOP	Information availability (non meteorological data)
RADARSAT	Information availability
MOS	Information availability
JERS	Information availability
ADEOS	Information availability
GMS	Information availability
High altitude balloons	Reliability, Regulatory complexity
AMSAT	"commercial" organization

Sattelite Communications Coverage relative to desired deployment locations



inmarsat provides worldwide coverage (except polar regions)



Orbcomm provides worldwide coverage (limited over polar regions)



GOES geosync Coverage