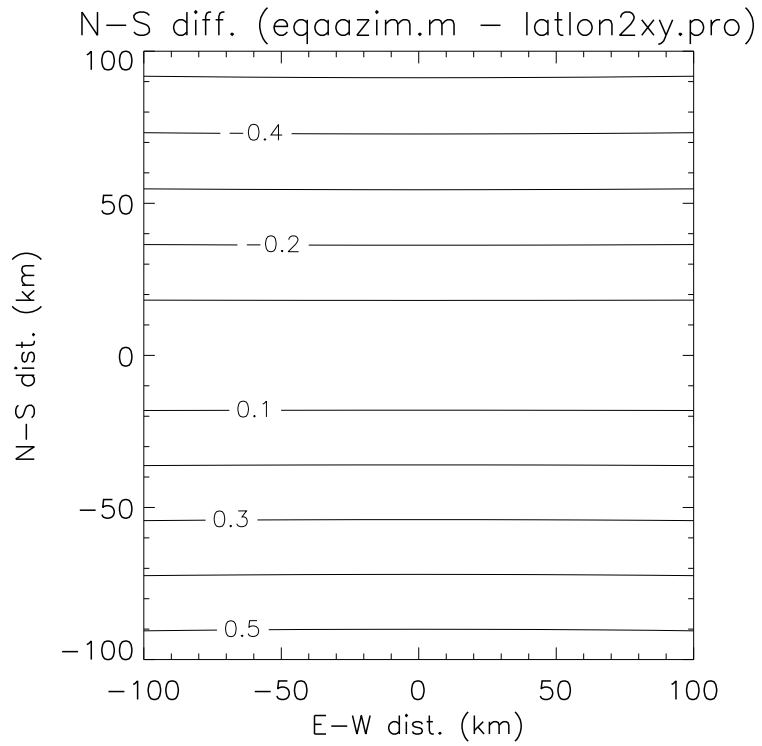
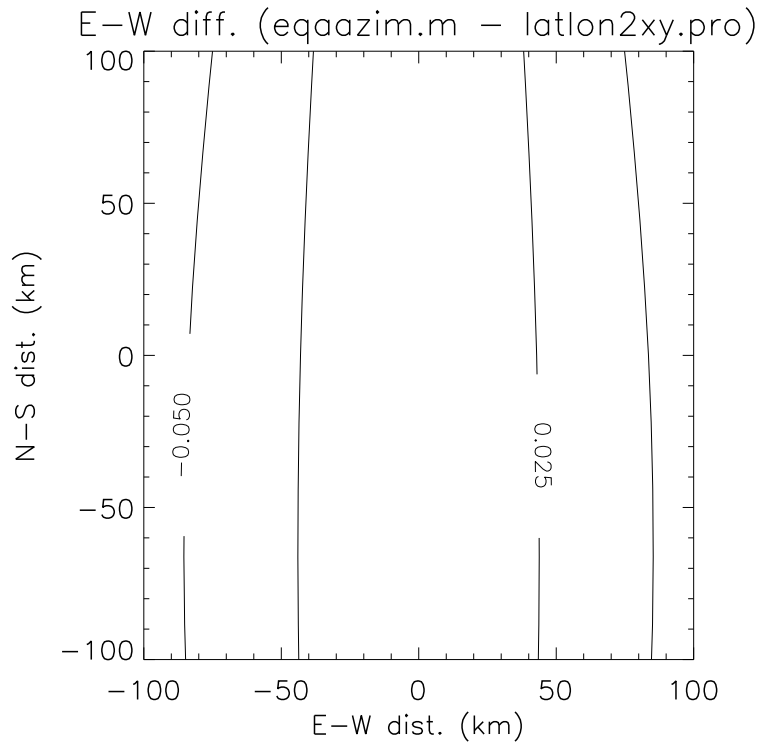
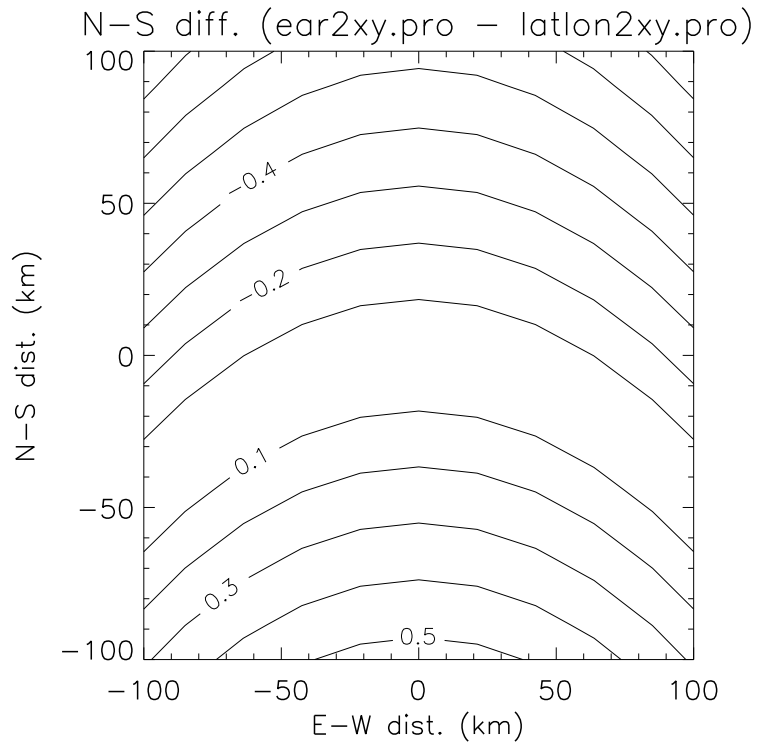
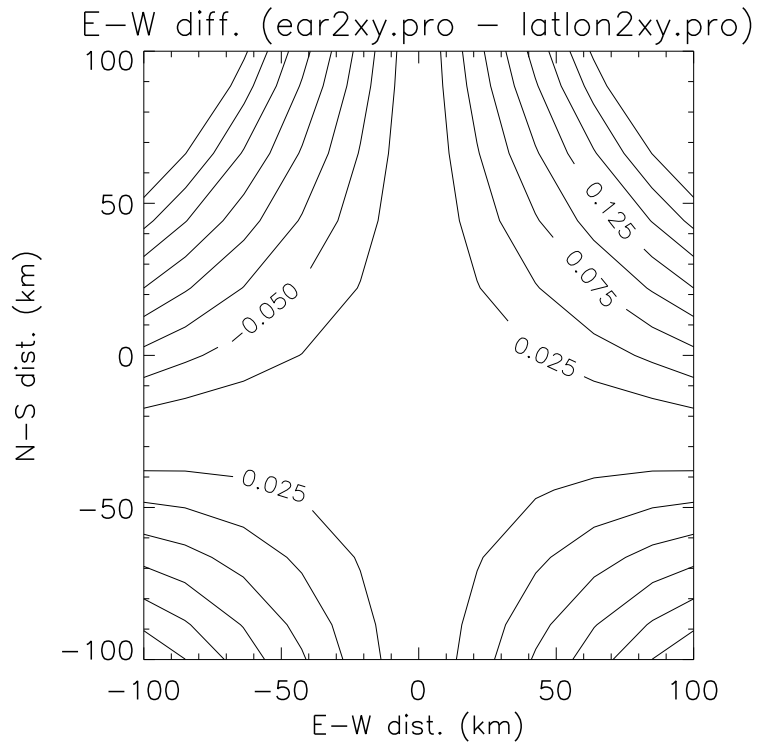


Co-location of aircraft and radar data.

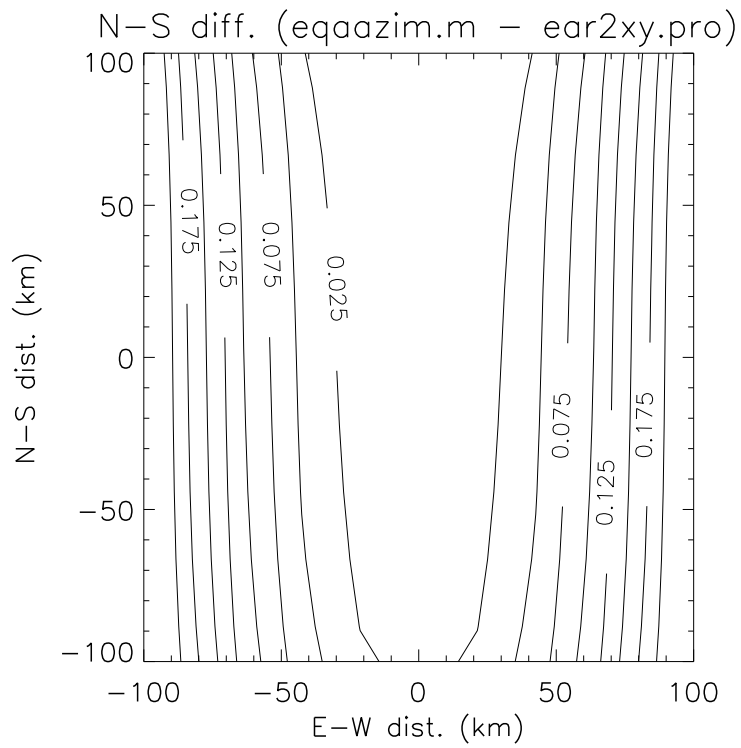
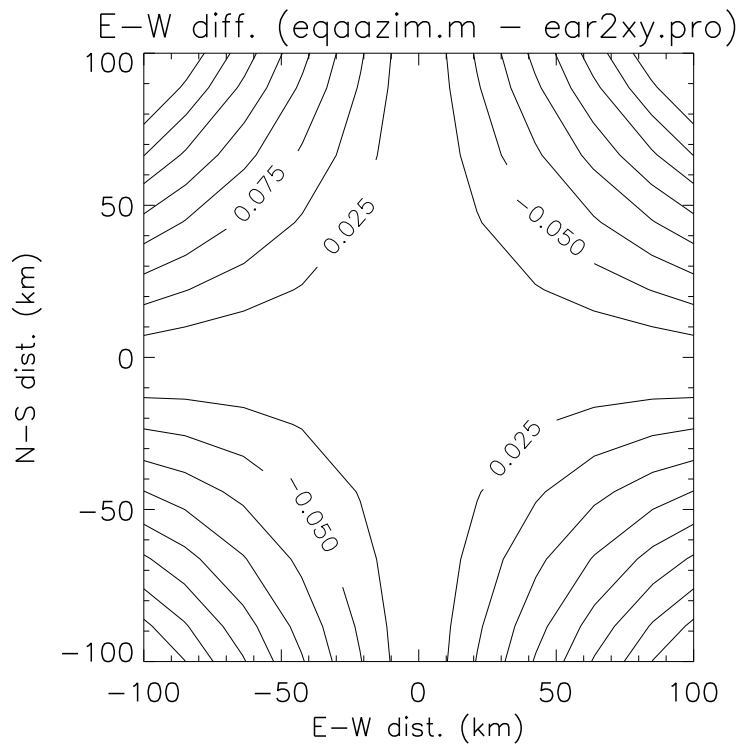
see report on [//www-das.uwyo.edu/~vali/rico/rico.html](http://www-das.uwyo.edu/~vali/rico/rico.html) for explanation; only the figures are included here



axes refer to position from eqaazim (xlab,ylab)



axes refer to position from ear2xy



axes refer to position from eqaazim (xlab,ylab)

Comparison of position data for King Air 'hits' during 20041213 flight

50622

		measured	calculated (km)		
			solo-ii/latlon2xy	eqaazim	ear2xy
20:37:51 UTC	KA GPS (note 1)				
	lat	18.1442			
	lon	-61.9730			
	xpos		-15.73	-15.73	-15.76
	ypos		59.74	59.41	59.42
	SPol via solo-ii (note 2)				
	lat		18.1395		
	lon		-61.9716		
xpos ± 0.84 (note 4)		-15.62	-15.64	-15.67	
ypos ± 0.29		59.25	58.94	58.95	
20:39:46 UTC	KA GPS (note 1)				
	lat	18.1454			
	lon	-61.9754			
	xpos		-15.98	-15.99	-16.02
	ypos		59.87	59.54	59.54
	SPol via solo-ii (note2)				
	lat		18.1409		
	lon		-61.9746		
xpos ± 0.86		-15.94	-15.85	-15.88	
ypos ± 0.36		59.38	59.16	59.17	

note 1: King Air GPS data taken from 1-Hz file, reading a single value without smoothing

note 2: for hit at 20:37:51, using data from one of the two (the Eastern one) pixels with equal reflectivity (36 dBZ)

for hit at 20:39:46, using center of four adjacent pixels (33, 37, 41, 46 dBZ)

note 3: using the difference between the GPS and SPol values via 'ear2xy'

note 4: radar pixel size is 0.8° in azimuth and 0.15 km in range