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0 EMPIRICAL COVARIANCE FUNCTIONS, VERS. JULY 2009.					
INPUT TEXT DESCRIBING DATA (MAX 60 CHAR):					
Emperical Covariance Estimation					
INPUT: SAMPLING INTERVAL (MINUTES), NUMBER OF INTERVALS					
NUMBER RESAMPLINGS OF TABLE, PLOT OUTPUT (T/F)					
TABLE OUTPUT TO SEPARATE FILE (T/F), MEAN VALUE SUBTRACTION (T/F)					
OMEAN VALUES HAVE BEEN SUBTRACTED FROM DATA.					
INPUT NAME OF FILE HOLDING COV TABLE					
COVARIANCE FUNCTION TABLE OUTPUT TO FILE saad.025e.cov					
INPUT: MAX NUMBER OF VALUES, INPUT MODE (WHERE 9 IS FREE FORMAT)					
LATITUDE FIRST IN RECORD (T/F), ANGULAR TYPE: 1, DDMMSS.S					
2: DDMM.M, 3: DD.D, OBSERVATION TYPE 1 (INTEGER) AND					
TYPE 2 (INTEGER, 0 IF NOT PRESENT), SCALE OF HISTOGRAM					
AND DATA TO BE SELECTED WITHIN GIVEN AREA (T/F)					
INPUT NUMBER OF DATA AND DATA ELEMENTS USED					
INPUT NAME OF FILE HOLDING DATA					
INPUT LATMIN, LATMAX, LONMIN, LONMAX					
LAST DATA FILE (T/F) ?					
454 VALUES INPUT FROM FILE saad.025d.rd					
454 INTO THE AREA 27.00 29.00 35.00 38.00					
DATA FROM 27.0005 28.9995 35.0001 37.9962					
MEAN HEIGHT= 671.4 M					
DATA PER DEG.SQUARE = 85.9 MEAN LINEAR SPACING 0.108 DEG.					
NUMBER OF OBS 1= 454 MEAN = -4.5776 VAR. = 207.7261400					
HISTOGRAM, USING BIN SIZE= 5.000					
0 0 0 1 3 13 16 10 31 51 56152 52 23 15 9 7 11 4 0 0 0 0					
OUT-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9' 10OUT					
0 0 0 1 3 13 16 10 31 51 56152 52 23 15 9 7 11 4 0 0 0 0					
13 16 10 31 51					
56 152 52 23 15					
9 7 11 4 0					
0 0 0 1 3 13 16 10 31 51 56152 52 23 15 9 7 11 4 0 0 0 0					
0 PSI COVA(1, 1) PROD. STDV OF COV..					
O M (UNIT)**2 NUMB (UNIT)**2					
0 0.00 224.102312 1352 9.0 12.727861					
0 5.00 175.918245 4268 4.7 113.717745					
0 10.00 7.830753 5334 3.7 222.905851					
0 15.00 -38.923163 5199 3.3 203.994563					
0 20.00 -16.133509 5114 1.9 132.543109					
0 25.00 7.658282 4588 1.9 107.851315					
0 30.00 12.829469 4311 2.1 96.097779					
0 35.00 -4.033809 3630 2.5 138.701131					
0 40.00 -24.716911 3537 2.8 181.529058					
0 45.00 -42.516229 3376 2.8 213.687483					
0 50.00 -65.794021 3051 3.5 263.608563					
0 55.00 -72.437101 2717 4.7 314.907769					
1 0.00 -76.946762 2434 6.5 383.359299					
1 5.00 -62.208405 2320 7.9 394.599300					
1 10.00 -12.751430 2385 6.8 320.658546					
1 15.00 3.122893 2713 3.9 230.771963					
1 20.00 -32.795510 3225 2.9 250.988416					
1 25.00 -49.406152 3773 2.5 292.121513					
1 30.00 -21.240652 4045 2.6 251.979534					
1 35.00 7.683212 4045 2.3 200.986934					
1 40.00 42.767445 4531 2.3 179.236623					
1 45.00 42.971758 4792 2.5 193.265628					
1 50.00 30.113117 4270 2.8 189.879836					
1 55.00 14.162396 3840 2.9 202.394816					
2 0.00 4.219898 3318 2.3 201.974442					

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2 5.00 2.812643 2862		2.3 203.212100			
2 10.00 0.764414 2206		2.8 217.115271			
2 15.00 -6.517638 1619		3.5 220.966421			
2 20.00 -25.476663 1168		4.2 245.798708			
2 25.00 -25.610494 1049		4.1 238.189432			
2 30.00 -9.105548 960		3.5 223.919821			
2 35.00 -40.267570 768		5.4 292.124987			
2 40.00 -34.351883 325		9.6 268.902760			
2 45.00 10.438623 95		3.8 218.363817			
2 50.00 1.845465 48		2.0 193.023312			
2 55.00 7.528011 13		6.6 104.427802			
3 0.00 15.351341 3		21.8 459.644729			
0 PSI COVA(1, 1) PROD. STDV OF COV..					
O M (UNIT)**2 NUMB (UNIT)**2					
0 0.00 224.102312 1352 9.0 12.727861					
0 7.50 82.544085 9602 3.1 174.372750					
0 17.50 -27.622253 10313 1.9 168.563288					
0 27.50 10.163394 8899 1.4 102.157474					
0 37.50 -14.241167 7167 1.9 159.837224					
0 47.50 -53.566571 6427 2.2 237.385820					
0 57.50 -74.568050 5151 3.9 347.253144					
1 7.50 -37.138291 4705 5.2 357.118174					
1 17.50 -16.384828 5938 2.4 241.751765					
1 27.50 -34.833442 7818 1.8 271.352223					
1 37.50 26.219436 8576 1.6 189.495486					
1 47.50 36.912787 9062 1.9 191.670248					
1 57.50 9.553677 7158 1.9 202.199957					
2 7.50 1.921089 5068 1.8 209.263875					
2 17.50 -14.463150 2787 2.7 231.373350					
2 27.50 -17.723611 2009 2.7 231.370703					
2 37.50 -38.508560 1093 4.8 285.219933					
2 47.50 7.554206 143 2.7 209.857913					
2 57.50 8.994886 16 6.4 171.030976					
0 PSI COVA(1, 1) PROD. STDV OF COV..					
O M (UNIT)**2 NUMB (UNIT)**2					
0 0.00 224.102312 1352 9.0 12.727861					
0 12.50 25.494352 19915 1.8 171.364315					
0 32.50 -0.723416 16066 1.2 127.888257					
0 52.50 -62.910034 11578 2.1 286.265297					
1 12.50 -25.559407 10643 2.7 292.752324					
1 32.50 -2.895569 16394 1.2 228.531473					
1 52.50 24.839019 16220 1.3 196.317083					
2 12.50 -3.892134 7855 1.5 217.108446					
2 32.50 -25.047257 3102 2.4 250.344658					
2 52.50 7.699180 159 2.5 205.950800					