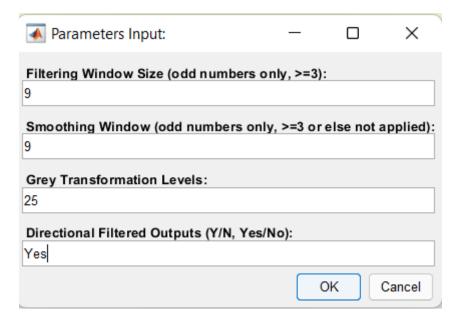
# Gray Level Transformed Directional Normalized Standard Deviations (NSTD) for Edge Detection

### Input Sample File

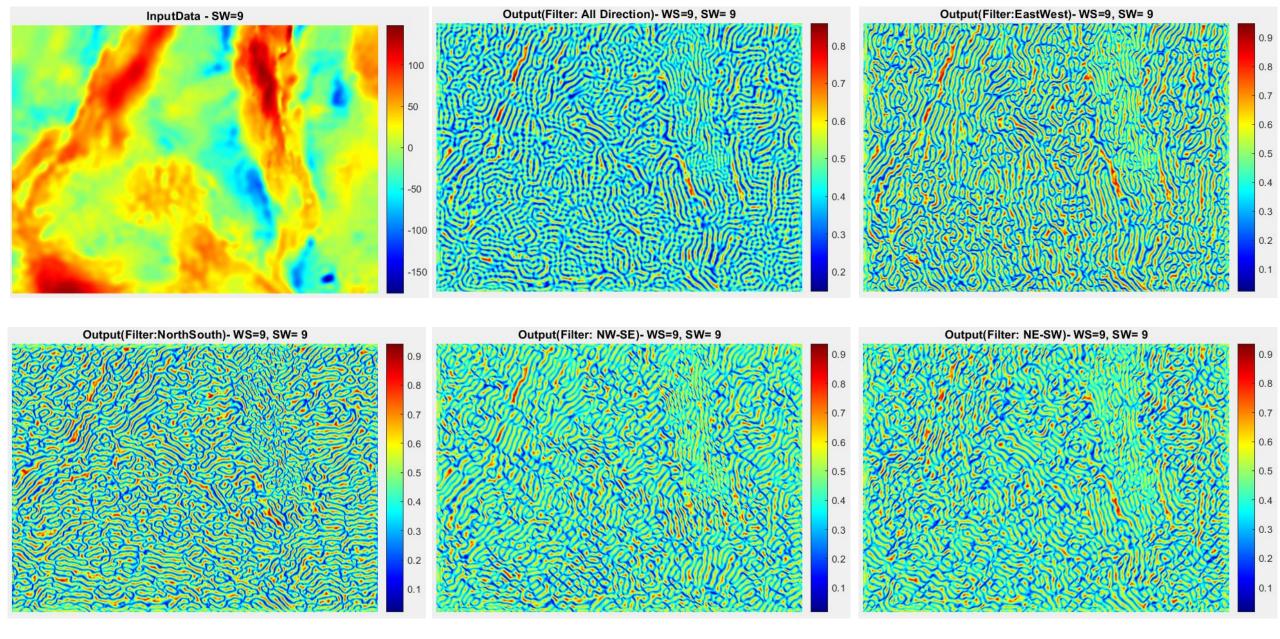
```
File Edit Format View Help
182300.000000 8208950.000000 37.515148
183200.000000 8208950.000000 38.543724
184100.000000 8208950.000000 39.592068
185000.000000 8208950.000000 40.666412
185900.000000 8208950.000000 41.754658
186800.000000 8208950.000000 42.825459
187700.000000 8208950.000000 43.823486
188600.000000 8208950.000000 44.674049
189500.000000 8208950.000000 45.293919
190400.000000 8208950.000000 45.604290
191300.000000 8208950.000000 45.554199
192200.000000 8208950.000000 45.189400
193100.000000 8208950.000000 44.651817
194000.000000 8208950.000000 43.927216
194900.000000 8208950.000000 43.187244
195800.000000 8208950.000000 42.476448
196700.000000 8208950.000000 41.786572
197600.000000 8208950.000000 41.130386
198500.000000 8208950.000000 40.525642
199400.000000 8208950.000000 39.990211
200300.000000 8208950.000000 39.462513
201200.000000 8208950.000000 38.933826
202100.000000 8208950.000000 38.479843
203000.000000 8208950.000000 38.142227
203900.000000 8208950.000000 37.968945
204800.000000 8208950.000000 37.975006
205700.000000 8208950.000000 38.125458
```

Sample\_FreeAirGravity.txt - Notepad

## Parameter Input



# Outputs



## Output Text File

```
NSTDWS9SW9L25_Sample_FreeAirGravity.txt - Notepad
NSTDWS7SW7L25_Sample_FreeAirGravity.txt - Notepad
                                                                                                          File Edit Format View Help
File Edit Format View Help
                                                                                                          Easting Northing
                                                                                                                                 InputData(smooth)
                                                                                                                                                        NSTDGL360
                                                                                                                                                                       NSTDGL EW
                                                                                                                                                                                       NSTDGL NS
                                                                                                                                                                                                      NSTDGL NWSE
                                                                                                                                                                                                                      NSTDGL NESW
# Petrel Points with attributes
                                                                                                          182300.00
                                                                                                                         8208950.00
                                                                                                                                        11.22847
                                                                                                                                                        0.29473 0.31264 0.42467 0.22770 0.31538
                                                                                                          183200.00
                                                                                                                         8208950.00
                                                                                                                                        13,65549
                                                                                                                                                        0.37453 0.36660 0.40676 0.31729 0.45466
# Unit in X and Y direction: m
                                                                                                          184100.00
                                                                                                                         8208950.00
                                                                                                                                        16,13944
                                                                                                                                                        0.45447 0.44077 0.42731 0.40180 0.52335
# Unit in depth: m
                                                                                                          185000.00
                                                                                                                         8208950.00
                                                                                                                                        18.67464
                                                                                                                                                        0.52951 0.52267 0.44173 0.49376 0.59494
VERSION 1
                                                                                                          185900.00
                                                                                                                                        21.25228
                                                                                                                         8208950.00
                                                                                                                                                        0.57720 0.58457 0.37097 0.54488 0.63745
BEGIN HEADER
                                                                                                          186800.00
                                                                                                                         8208950.00
                                                                                                                                        21.73599
                                                                                                                                                        0.55047 0.52635 0.47108 0.48383 0.60043
Х
                                                                                                          187700.00
                                                                                                                         8208950.00
                                                                                                                                        22.17512
                                                                                                                                                        0.50147 0.44537 0.52295 0.37518 0.53691
                                                                                                          188600.00
                                                                                                                         8208950.00
                                                                                                                                        22.55106
                                                                                                                                                        0.45056 0.36323 0.57693 0.27395 0.46457
                                                                                                                         8208950.00
                                                                                                                                        22.83929
                                                                                                          189500.00
                                                                                                                                                        0.40667 0.28403 0.61410 0.15113 0.38551
                                                                                                          190400.00
                                                                                                                         8208950.00
                                                                                                                                        23.02650
                                                                                                                                                        0.37880 0.22025 0.58288 0.27447 0.28480
FLOAT, NSTDGL360
                                                                                                          191300.00
                                                                                                                         8208950.00
                                                                                                                                        23.11718
                                                                                                                                                        0.39422 0.27271 0.55620 0.38963 0.18408
FLOAT, NSTDGL EW
                                                                                                          192200.00
                                                                                                                         8208950.00
                                                                                                                                        23,11932
                                                                                                                                                        0.43807 0.37820 0.52826 0.49496 0.13713
FLOAT NSTDGL NS
                                                                                                          193100.00
                                                                                                                         8208950.00
                                                                                                                                        23,04080
                                                                                                                                                        0.49217 0.49471 0.50439 0.57844 0.25322
                                                                                                          194000.00
                                                                                                                         8208950.00
                                                                                                                                        22.89304
                                                                                                                                                        0.52220 0.57964 0.48558 0.61879 0.35605
FLOAT, NSTDGL NWSE
                                                                                                          194900.00
                                                                                                                         8208950.00
                                                                                                                                        22.69317
                                                                                                                                                        0.52809 0.64264 0.48136 0.62523 0.42671
FLOAT, NSTDGL NESW
                                                                                                          195800.00
                                                                                                                         8208950.00
                                                                                                                                        22.46173
                                                                                                                                                        0.51225 0.66511 0.45458 0.59644 0.51243
END HEADER
                                                                                                                         8208950.00
                                                                                                                                        22.22199
                                                                                                          196700.00
                                                                                                                                                        0.47761 0.62197 0.41379 0.55471 0.54803
182300.00
                  8208950.00
                                    11.22847
                                                       0.29473 0.31264 0.42467 0.22770 0.31538
                                                                                                          197600.00
                                                                                                                         8208950.00
                                                                                                                                        22,00294
                                                                                                                                                        0.43409 0.54919 0.41591 0.50352 0.47256
 183200.00
                  8208950.00
                                    13,65549
                                                       0.37453 0.36660 0.40676 0.31729 0.45466
                                                                                                          198500.00
                                                                                                                         8208950.00
                                                                                                                                        21.82256
                                                                                                                                                        0.41447 0.52154 0.45178 0.45316 0.43997
                                                                                                          199400.00
                                                                                                                         8208950.00
                                                                                                                                        21.68505
 184100.00
                  8208950.00
                                    16.13944
                                                       0.45447 0.44077 0.42731 0.40180 0.52335
                                                                                                                                                        0.44683 0.55652 0.49778 0.43241 0.47918
                                                                                                          200300.00
                                                                                                                         8208950.00
                                                                                                                                        21.59387
                                                                                                                                                        0.49683 0.59601 0.52681 0.46111 0.52095
 185000.00
                  8208950.00
                                    18,67464
                                                       0.52951 0.52267 0.44173 0.49376 0.59494
                                                                                                          201200.00
                                                                                                                         8208950.00
                                                                                                                                        21.55566
                                                                                                                                                        0.55649 0.63600 0.46727 0.53011 0.58302
 185900.00
                  8208950.00
                                    21.25228
                                                       0.57720 0.58457 0.37097 0.54488 0.63745
                                                                                                          202100.00
                                                                                                                         8208950.00
                                                                                                                                        21.57572
                                                                                                                                                        0.62385 0.67808 0.43010 0.62139 0.65947
                                    21.73599
 186800.00
                  8208950.00
                                                       0.55047 0.52635 0.47108 0.48383 0.60043
                                                                                                          203000.00
                                                                                                                         8208950.00
                                                                                                                                        21.65534
                                                                                                                                                        0.61993 0.60650 0.41483 0.65989 0.66283
 187700.00
                  8208950.00
                                    22.17512
                                                       0.50147 0.44537 0.52295 0.37518 0.53691
                                                                                                          203900.00
                                                                                                                         8208950.00
                                                                                                                                        21.79847
                                                                                                                                                        0.55469 0.48668 0.45024 0.58732 0.59623
 188600.00
                  8208950.00
                                    22.55106
                                                       0.45056 0.36323 0.57693 0.27395 0.46457
                                                                                                          204800.00
                                                                                                                         8208950.00
                                                                                                                                        22.00804
                                                                                                                                                        0.48420 0.37965 0.50747 0.44117 0.52008
                                                                                                          205700.00
                                                                                                                         8208950.00
                                                                                                                                        22,28584
                                                                                                                                                        0.42467 0.29118 0.56036 0.28383 0.43514
 189500.00
                  8208950.00
                                    22.83929
                                                       0.40667 0.28403 0.61410 0.15113 0.38551
                                                                                                          206600.00
                                                                                                                         8208950.00
                                                                                                                                        22,63363
                                                                                                                                                        0.38510 0.24033 0.60052 0.20261 0.34024
 190400.00
                  8208950.00
                                    23.02650
                                                       0.37880 0.22025 0.58288 0.27447 0.28480
                                                                                                          207500.00
                                                                                                                         8208950.00
                                                                                                                                        23.05238
                                                                                                                                                        0.38165 0.26902 0.61900 0.28770 0.22959
 191300.00
                  8208950.00
                                    23.11718
                                                       0.39422 0.27271 0.55620 0.38963 0.18408
                                                                                                          208400.00
                                                                                                                         8208950.00
                                                                                                                                        23.53997
                                                                                                                                                        0.40684 0.32420 0.59884 0.39763 0.17260
 192200.00
                                    23.11932
                  8208950.00
                                                       0.43807 0.37820 0.52826 0.49496 0.13713
                                                                                                          209300.00
                                                                                                                                        24.09195
                                                                                                                         8208950.00
                                                                                                                                                        0.45818 0.39856 0.56649 0.50538 0.24710
 193100.00
                  8208950.00
                                    23,04080
                                                       0.49217 0.49471 0.50439 0.57844 0.25322
                                                                                                                         8208950.00
                                                                                                          210200.00
                                                                                                                                        24.70540
                                                                                                                                                        0.52081 0.48078 0.53428 0.59181 0.37389
```