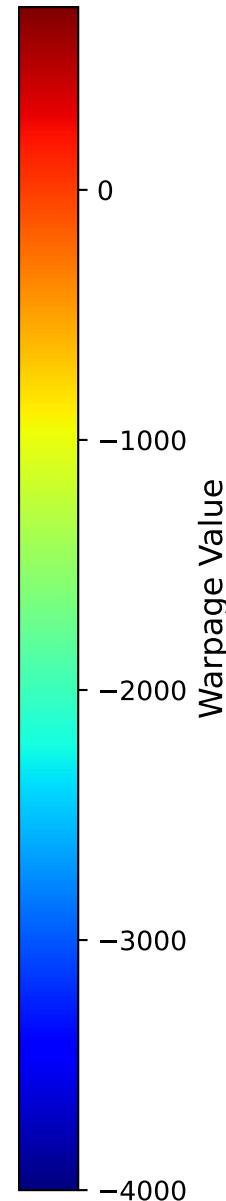
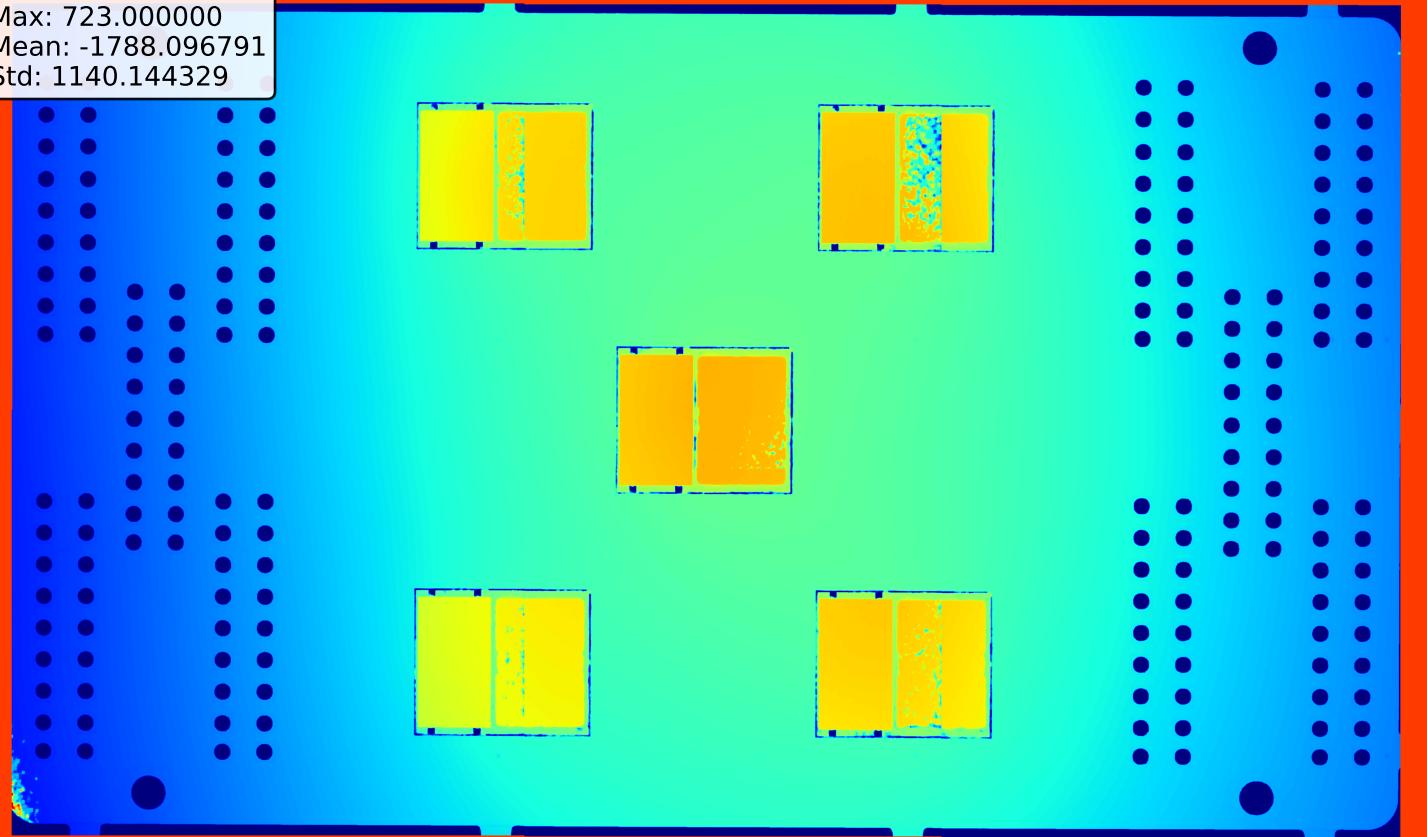
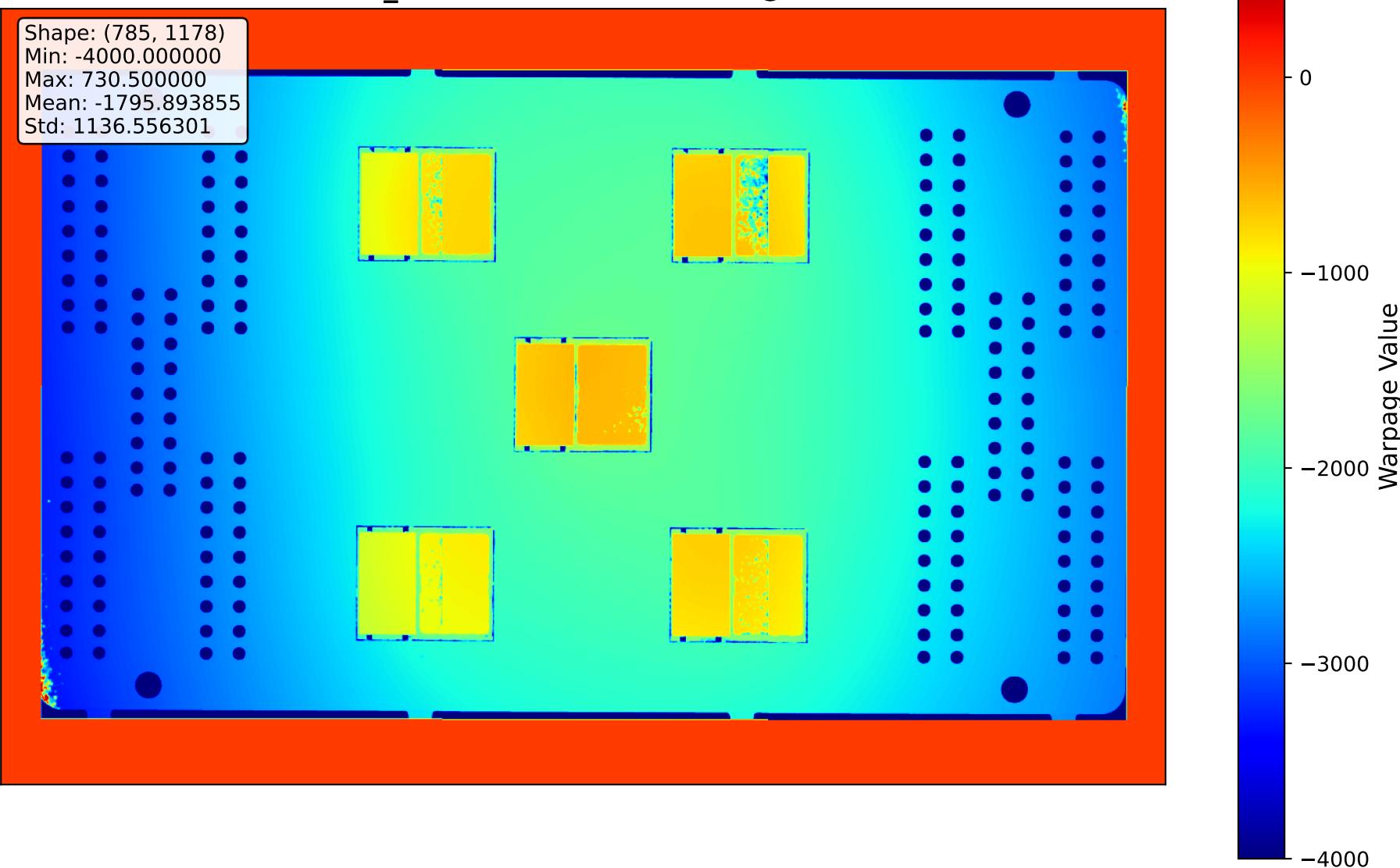


**File\_01 - 20250716111845@.txt**

Shape: (3141, 4712)  
Min: -4000.000000  
Max: 723.000000  
Mean: -1788.096791  
Std: 1140.144329

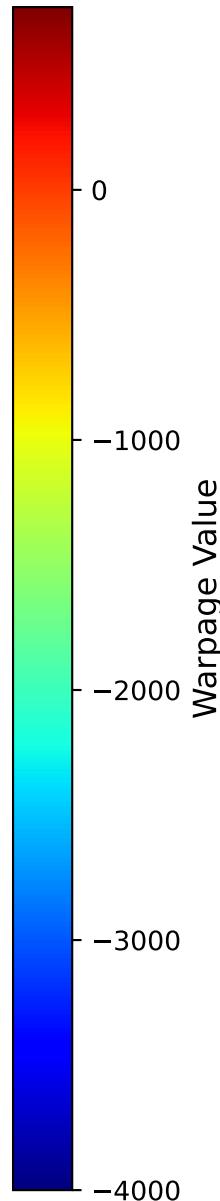
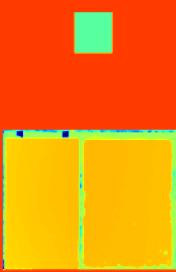


**File\_02 - 20250716112257@.txt**



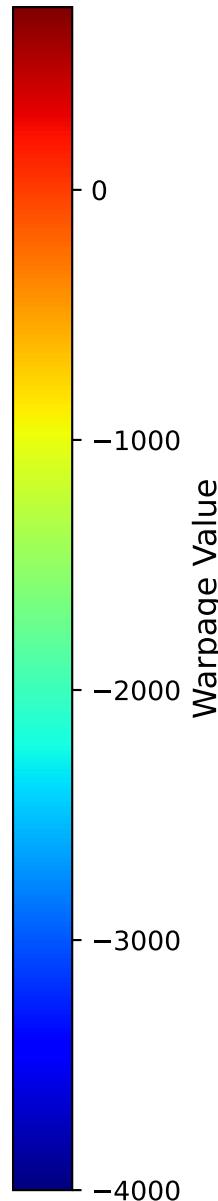
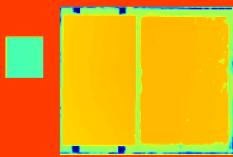
# File\_03 - 20250716112716@.txt

Shape: (785, 1178)  
Min: -4000.000000  
Max: 0.000000  
Mean: -15.105194  
Std: 126.621407



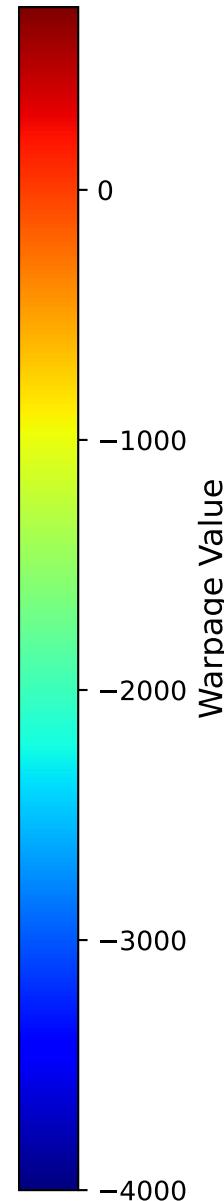
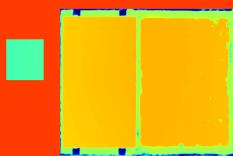
# File\_04 - 20250716112912@.txt

Shape: (785, 1178)  
Min: -4000.000000  
Max: 0.000000  
Mean: -16.954766  
Std: 142.554725



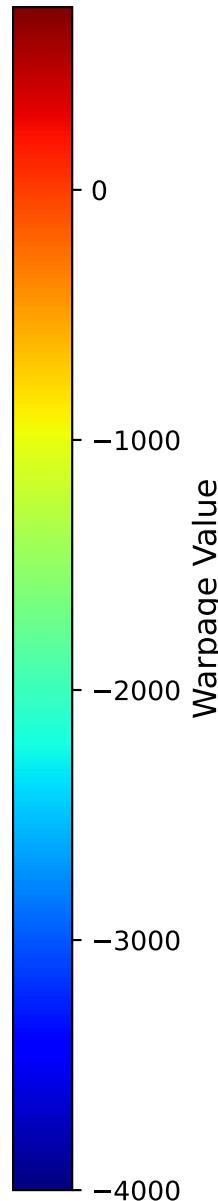
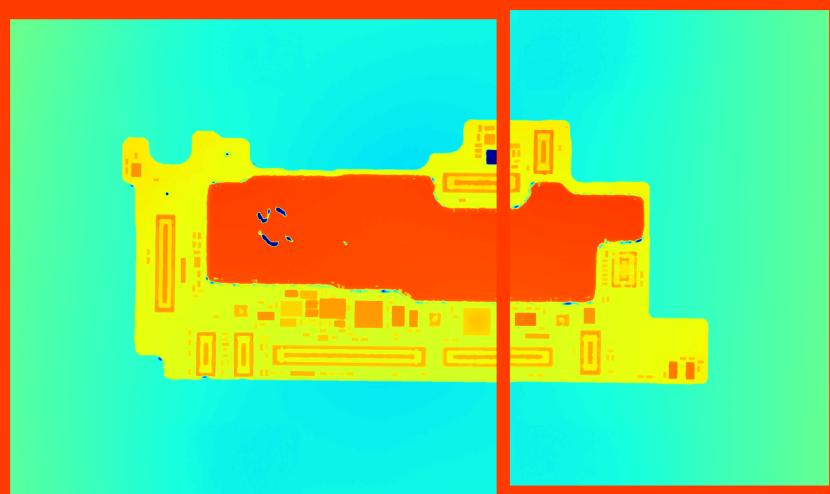
# File\_05 - 20250716113039@.txt

Shape: (3141, 4712)  
Min: -4000.000000  
Max: 0.000000  
Mean: -16.702813  
Std: 144.206754



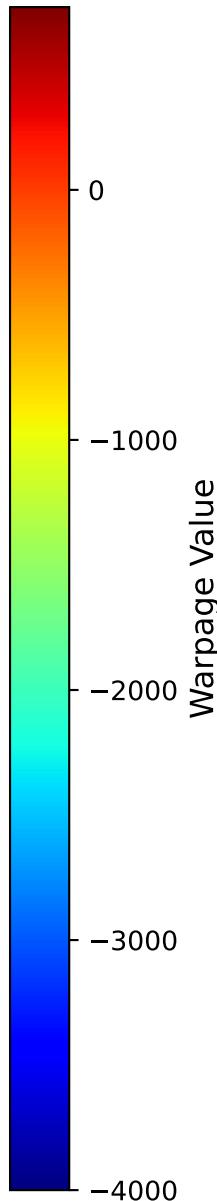
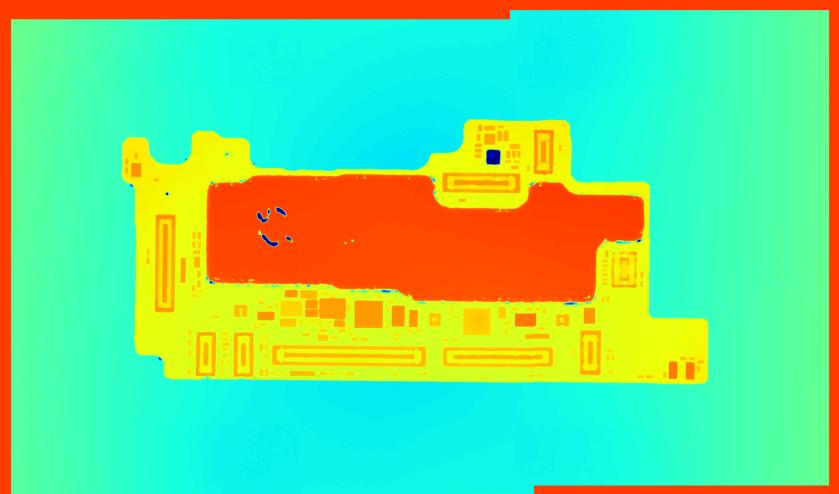
**File\_06 - 20250716114319@.txt**

Shape: (3136, 4696)  
Min: -4000.000000  
Max: 12.400000  
Mean: -424.628724  
Std: 810.959709



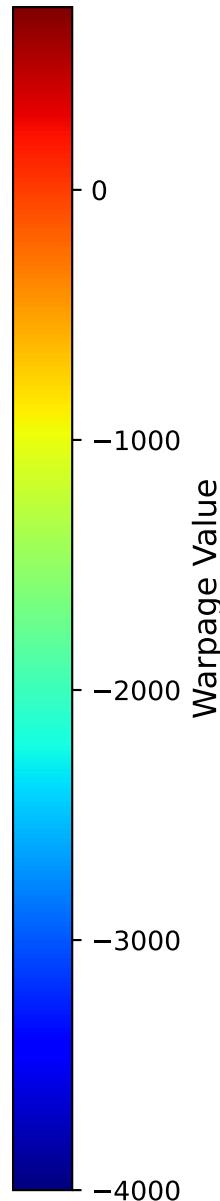
# File\_07 - 20250716114413@.txt

Shape: (3136, 4696)  
Min: -4000.000000  
Max: 13.300000  
Mean: -429.993375  
Std: 814.536432



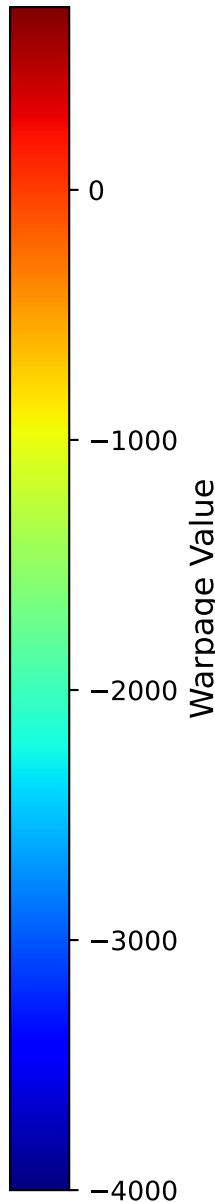
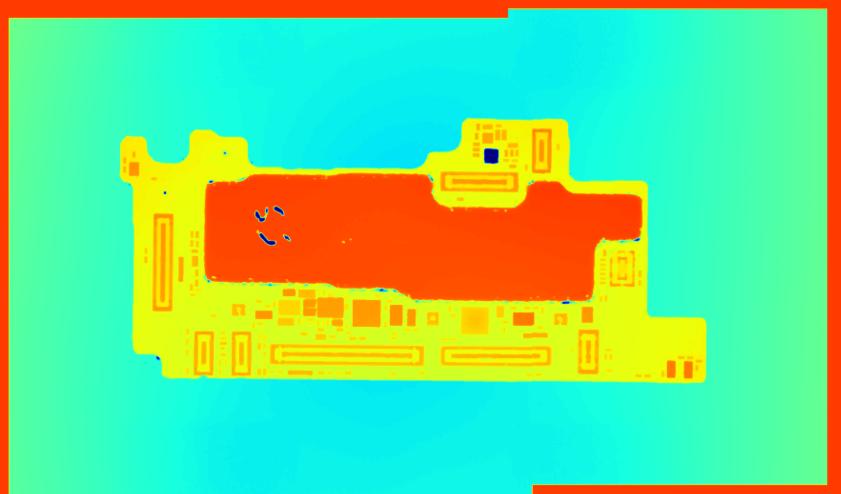
**File\_08 - 20250716114831@.txt**

Shape: (1568, 2348)  
Min: -4000.000000  
Max: 9.100000  
Mean: -430.698487  
Std: 815.117494



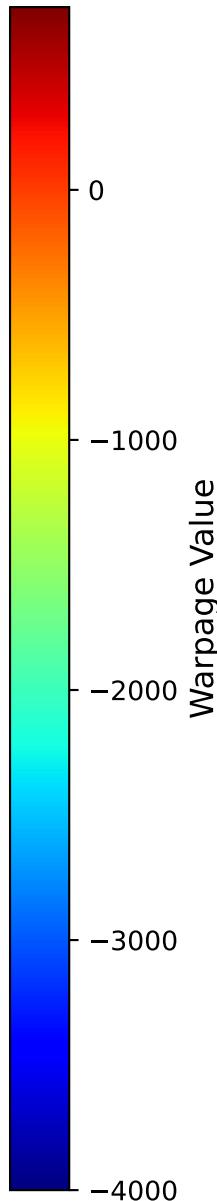
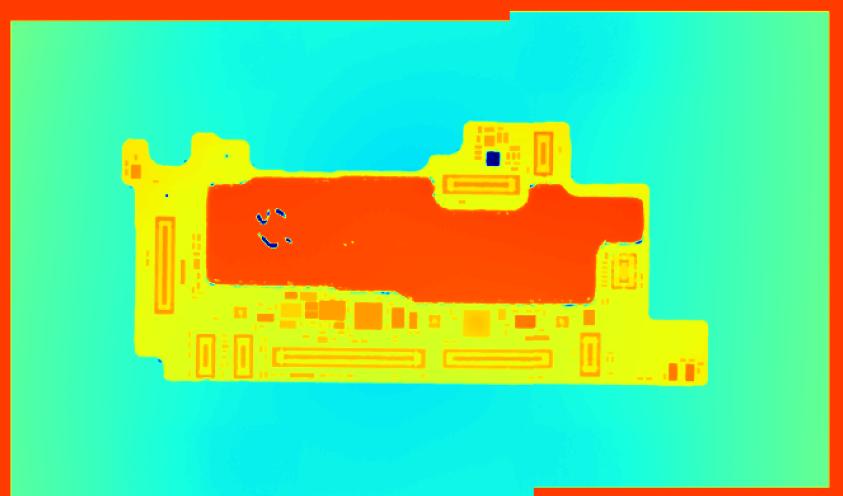
# File\_09 - 20250716115134@.txt

Shape: (1045, 1565)  
Min: -4000.000000  
Max: 7.400000  
Mean: -431.361636  
Std: 815.758242



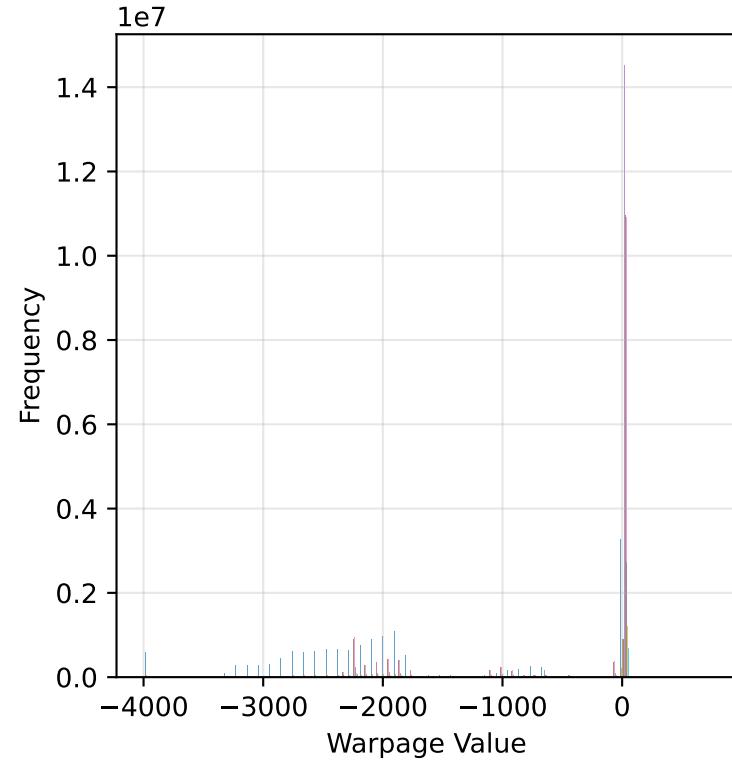
**File\_10 - 20250716115218@.txt**

Shape: (784, 1174)  
Min: -4000.000000  
Max: 6.100000  
Mean: -431.168038  
Std: 814.925281

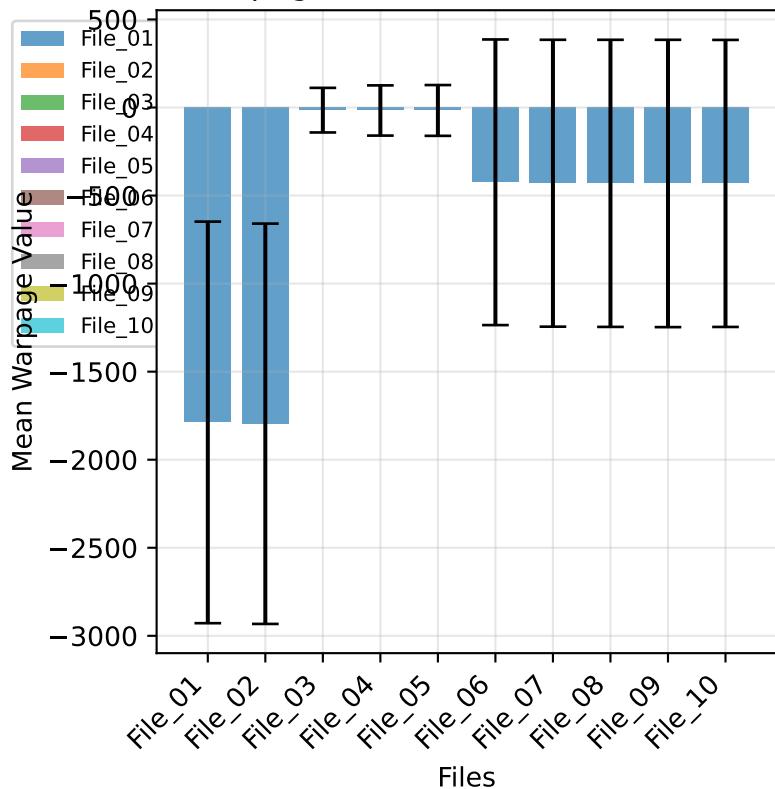


# Statistical Comparison - Warpage Analysis

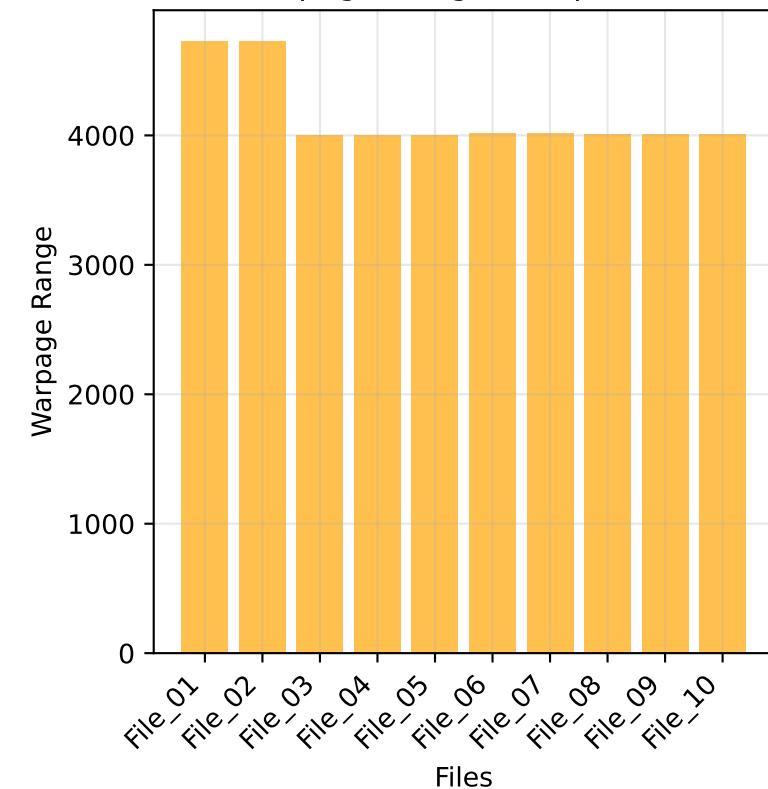
## Warpage Distribution Comparison



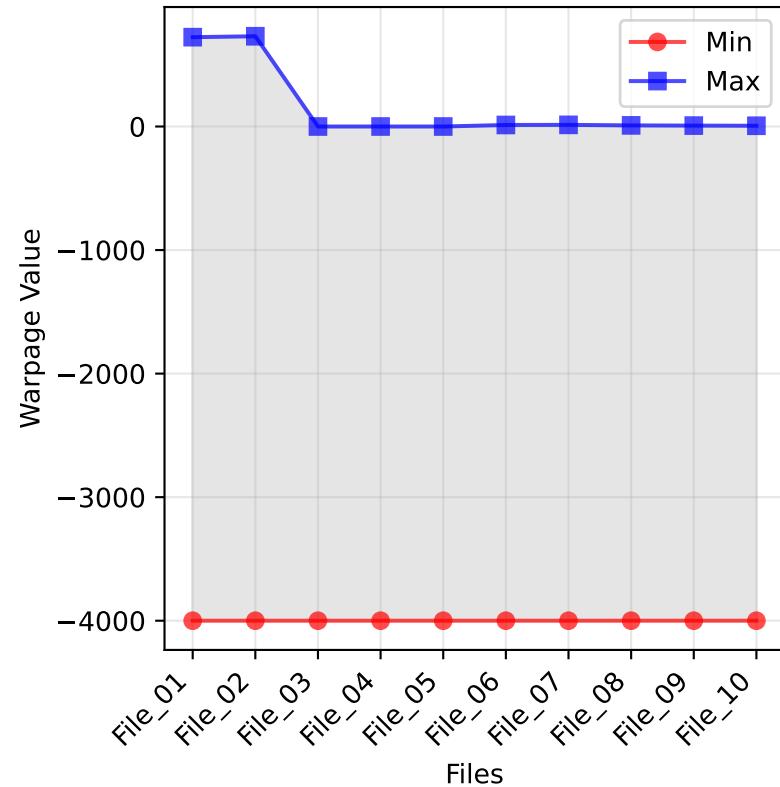
## Mean Warpage Values with Standard Deviation



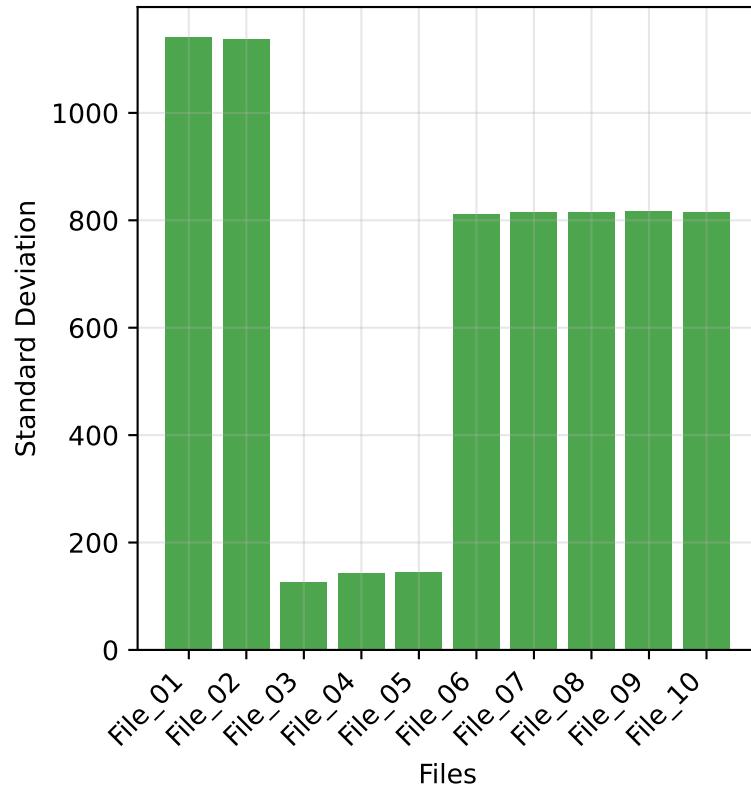
## Warpage Range Comparison



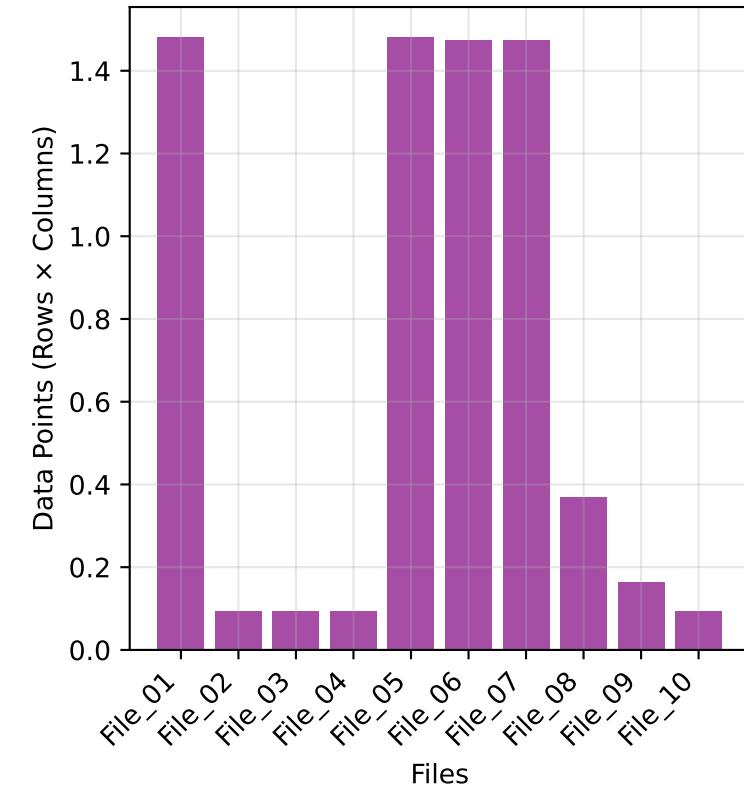
## Min-Max Warpage Values



## Standard Deviation Comparison

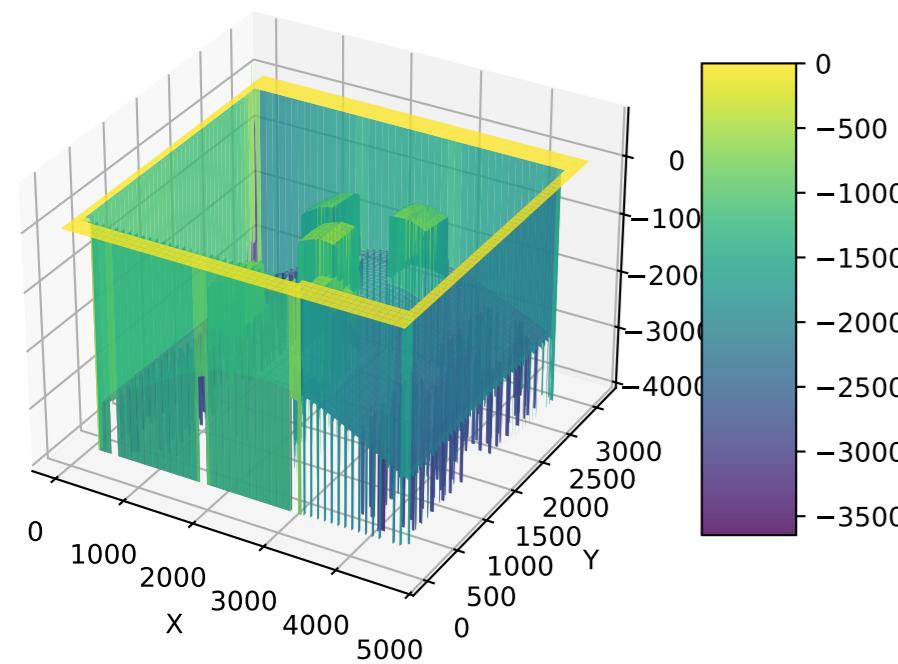


## Data Size Comparison

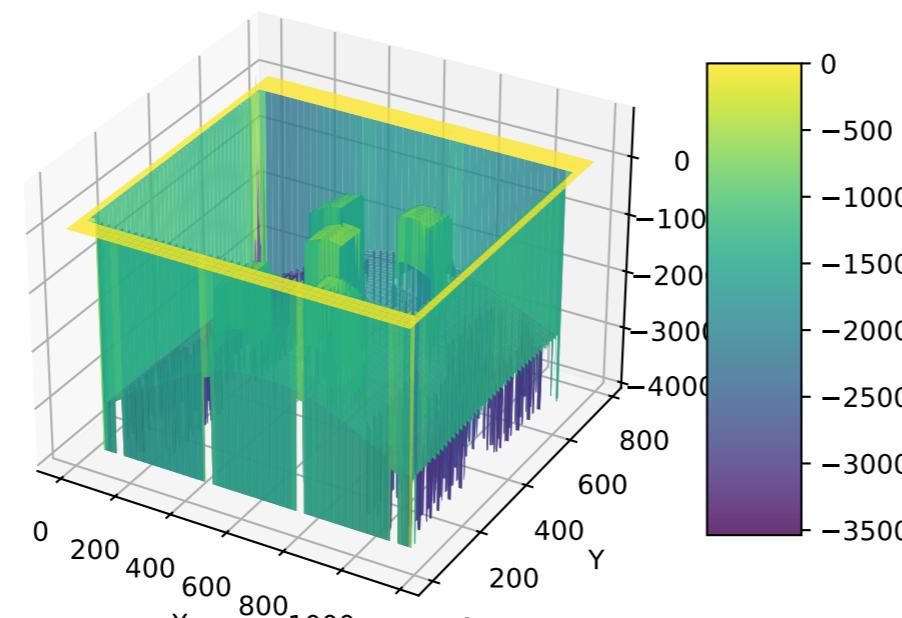


### 3D Surface Plots - Warpage Data

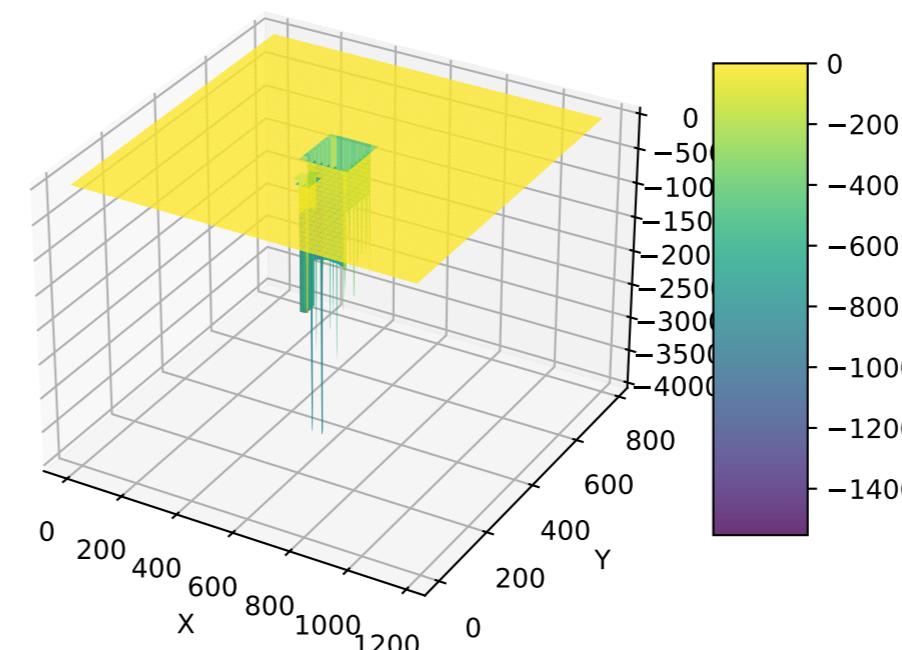
File\_01  
20250716111845@.txt



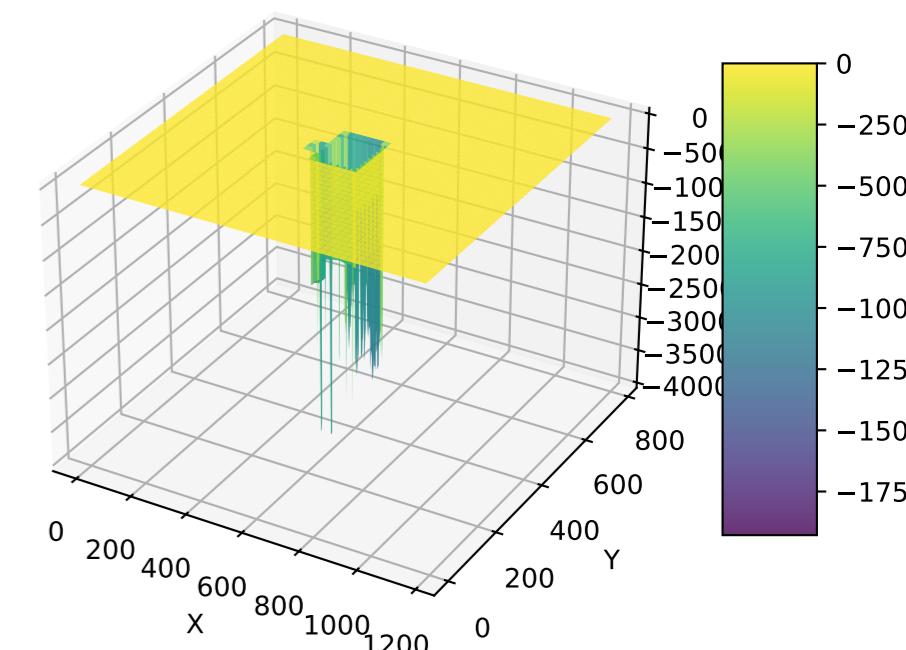
File\_02  
20250716112257@.txt



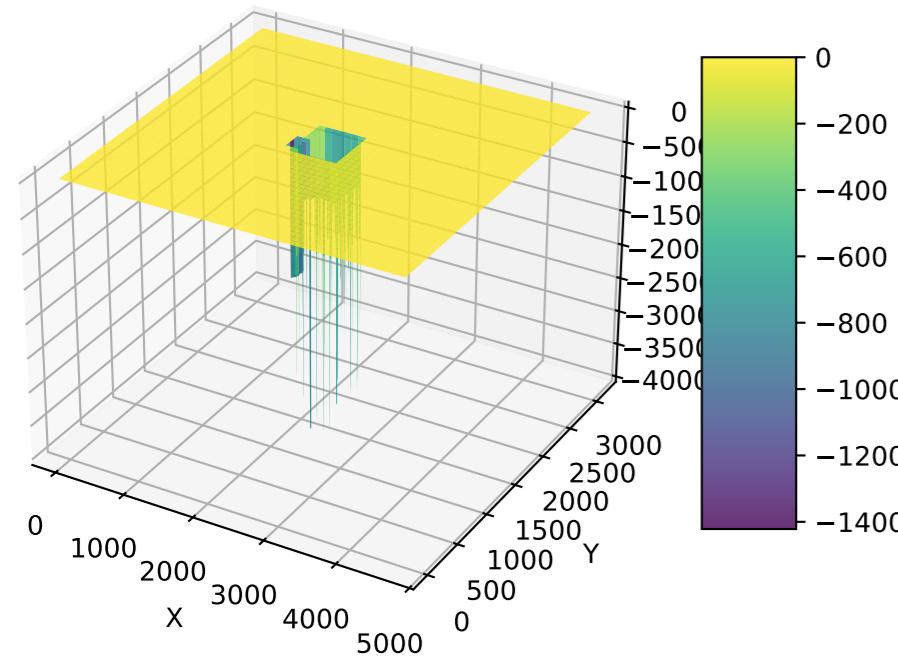
File\_03  
20250716112716@.txt



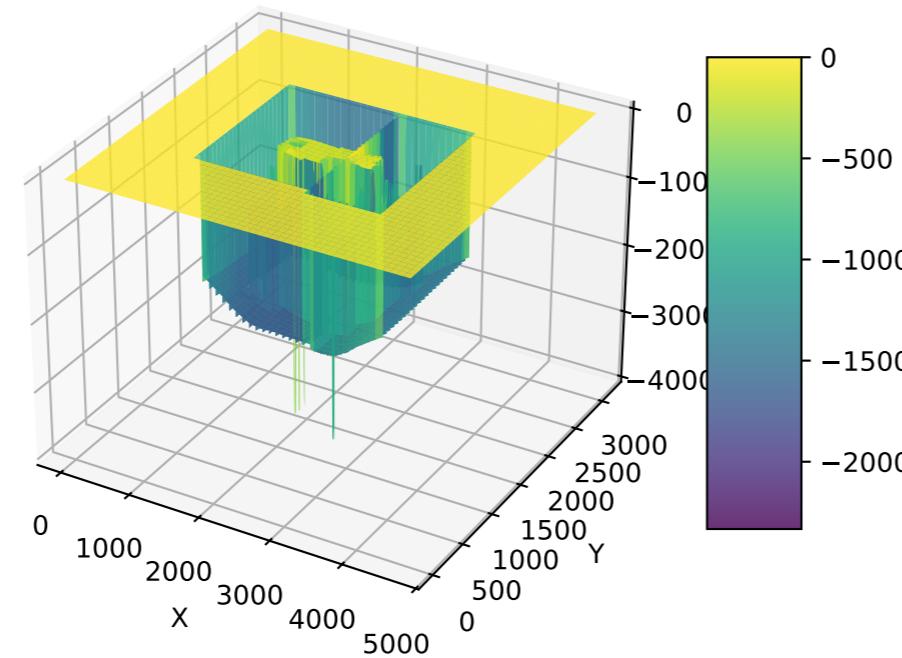
File\_04  
20250716112912@.txt



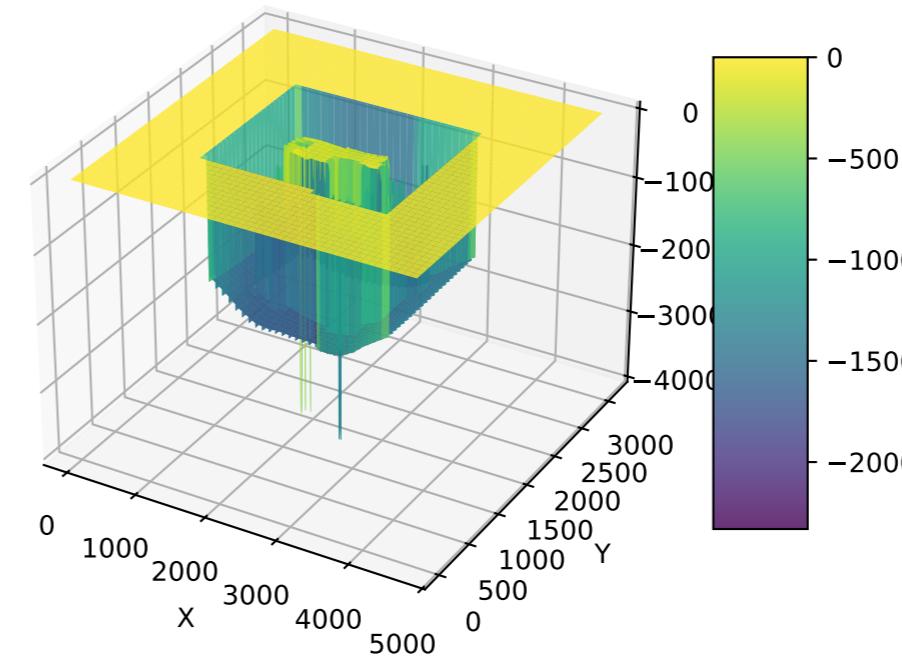
File\_05  
20250716113039@.txt



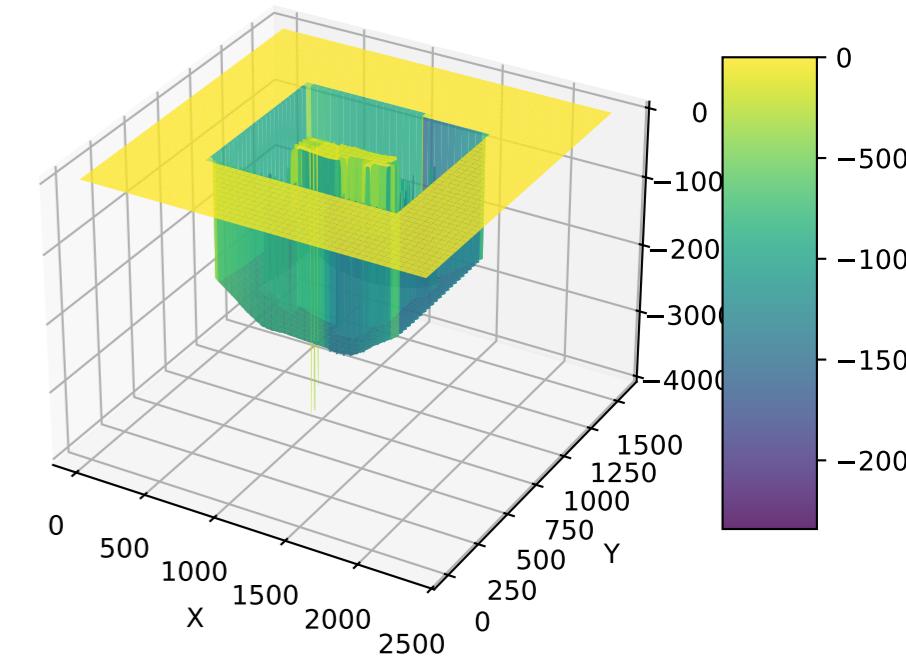
File\_06  
20250716114319@.txt



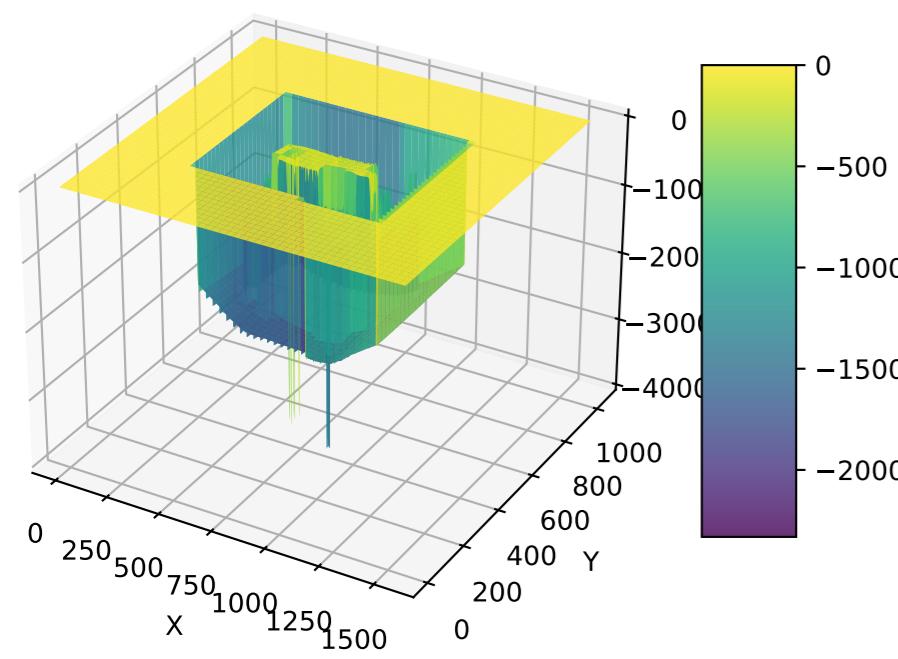
File\_07  
20250716114413@.txt



File\_08  
20250716114831@.txt



File\_09  
20250716115134@.txt



File\_10  
20250716115218@.txt

