

INTRODUCTION TO GEOLIME

Spatial Data Declustering in Python

DEEPLIME

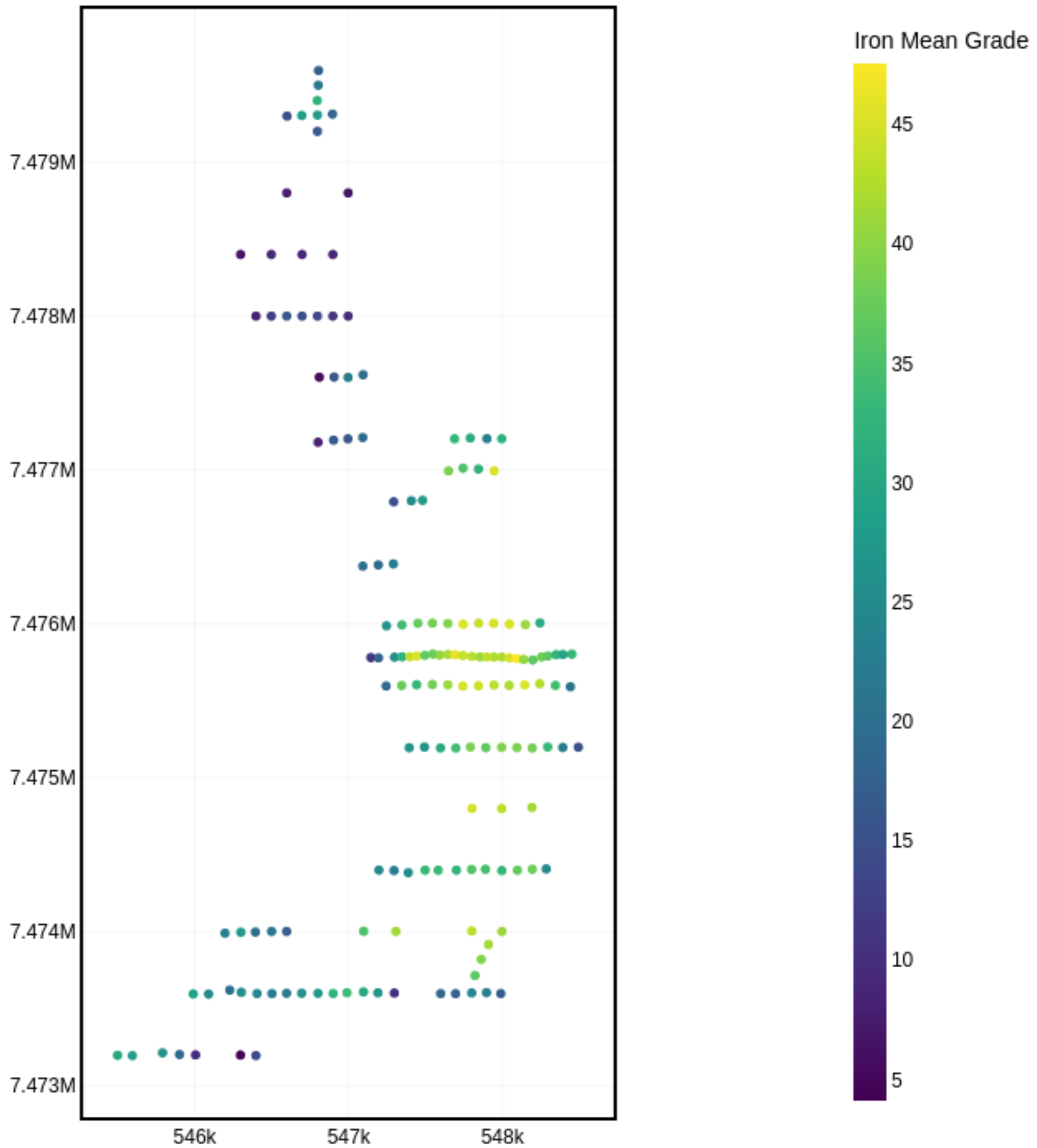




```
import geolime as geo

drillholes = geo.read_file(
    "rocklea_dh.geo"
)

drillholes.plot_2d(
    attribute="Fe",
    agg_method="mean"
)
```





```
geo.moving_window_declus(  
    obj=drillholes,  
    obj_attribute="Fe",  
    declus_attribute="Fe_declus_weight_mw",  
    diam_x=500,  
    diam_y=500,  
    geometry="BALL"  
)
```

```
geo.cell_declustering(  
    obj=drillholes,  
    obj_attribute="Fe",  
    declus_attribute="Fe_declus_weight_cd",  
    size_x=500,  
    size_y=500,  
    nb_off=25  
)
```



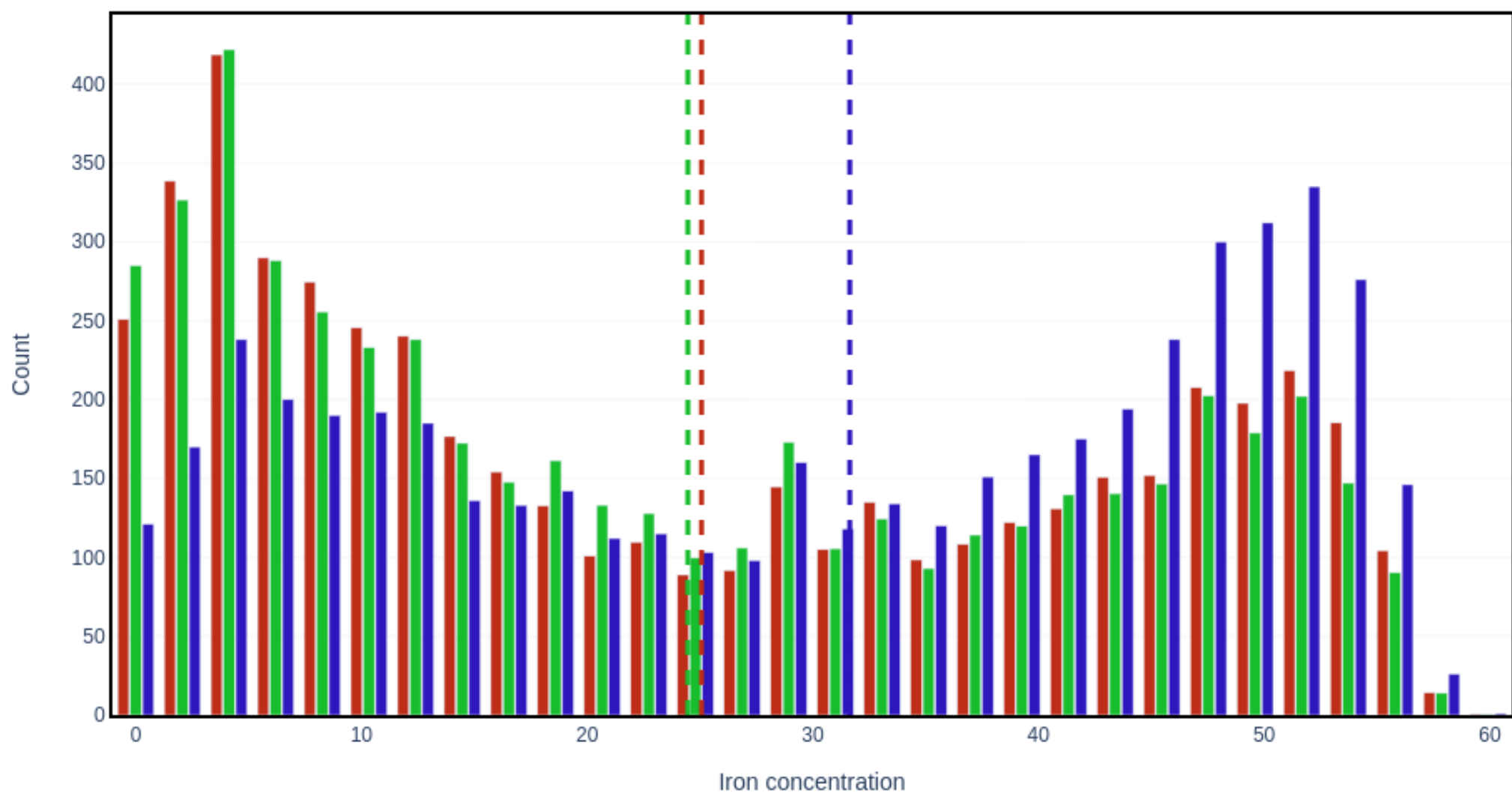
```
geo.bar(  
  [  
    {"object": dh, "property": "Fe"},  
    {  
      "object": drillholes,  
      "property": "Fe",  
      "weights": "Fe_declus_weight_mw"  
    },  
    {  
      "object": drillholes,  
      "property": "Fe",  
      "weights": "Fe_declus_weight_cd"  
    }  
  ],  
  nbins=30  
)
```

Fe Distribution

- Declustered Values - Moving Window
- Declustered Values - Cell Declustering
- Naive Values

Mean Values

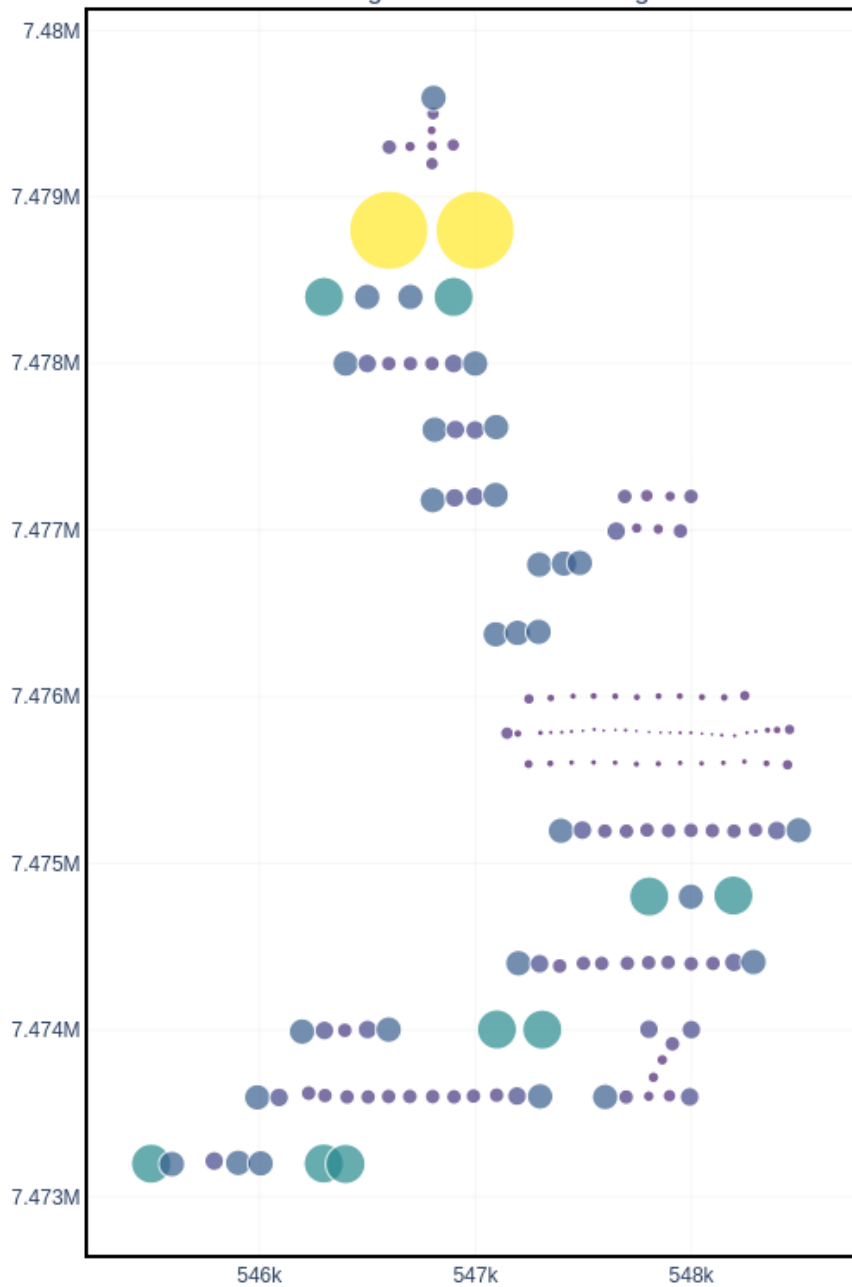
- Moving Window Declustered Fe Mean
- Cell Declustered Fe Mean
- Naive Fe Mean



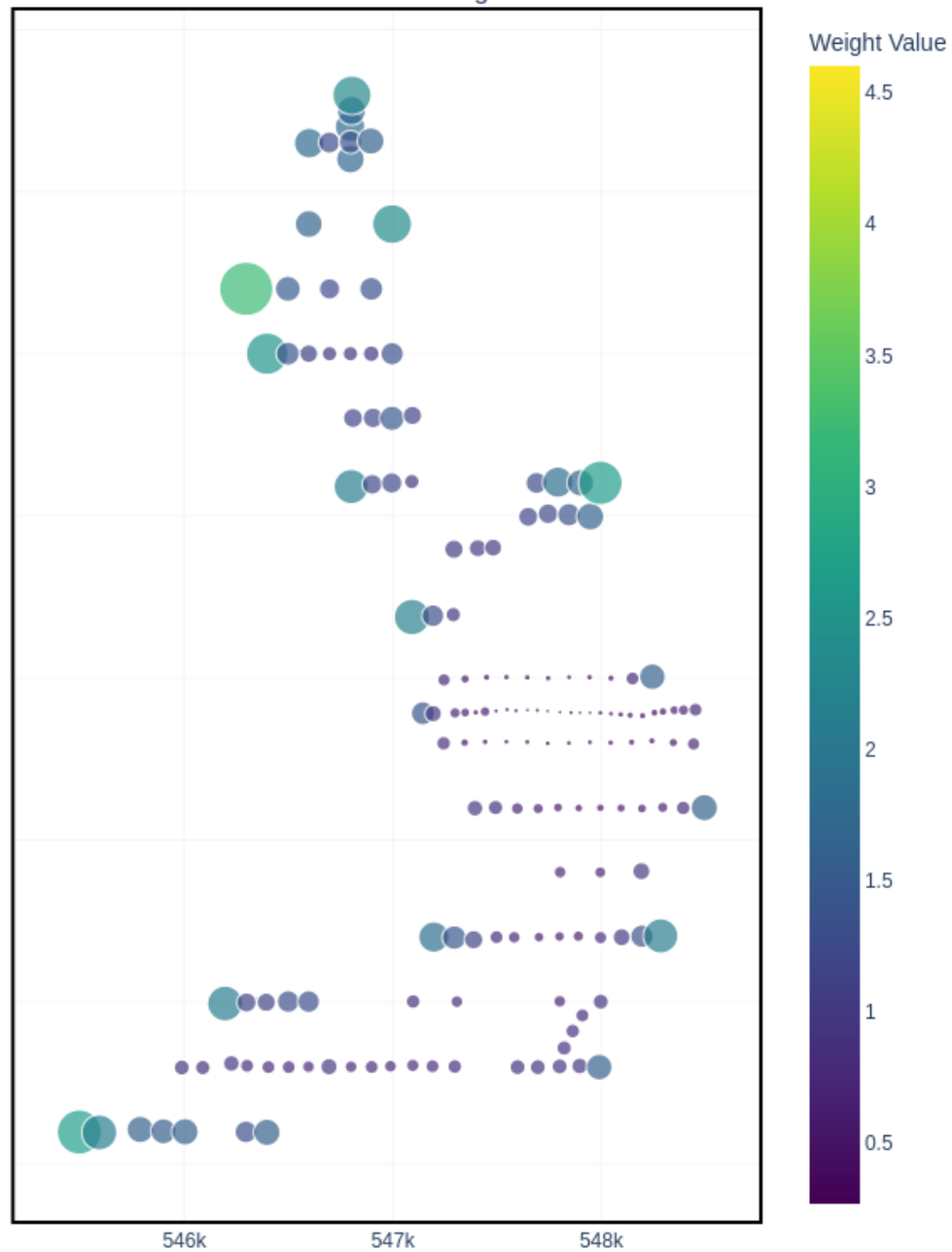


```
geo.plot_2d(  
    [  
        {  
            "object":drillholes,  
            "property":"Fe_declus_weight_mw",  
            "size":"Fe_declus_weight_mw",  
            "title":"Moving Window Declustering"  
        },  
        {  
            "object":drillholes,  
            "property":"Fe_declus_weight_cd",  
            "size":"Fe_declus_weight_cd",  
            "title":"Cell Declustering"  
        }  
    ],  
    yaxis_shared=True,  
    colorscale_name="Weight Value"  
)
```

Moving Window Declustering



Cell Declustering



HOW EASY WAS THAT?

Check our
documentation for
more examples,
and let's rock!



DEEPLIME