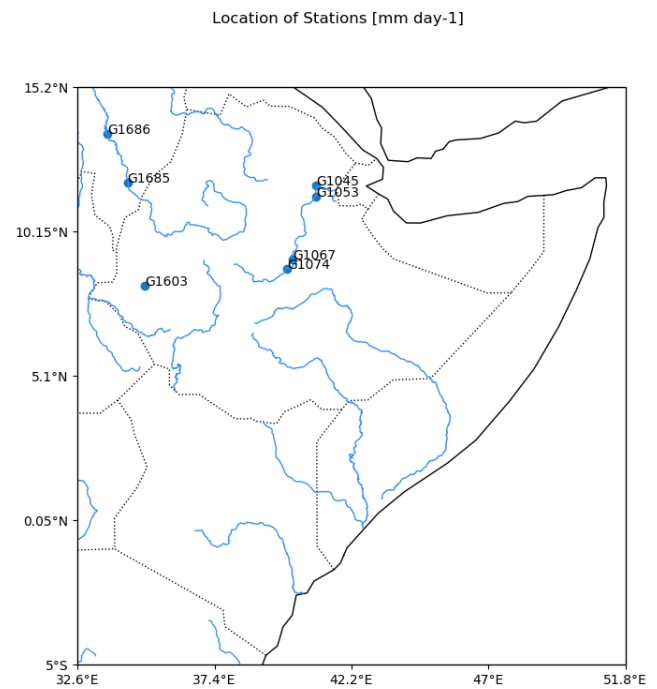


The station runoff is too high

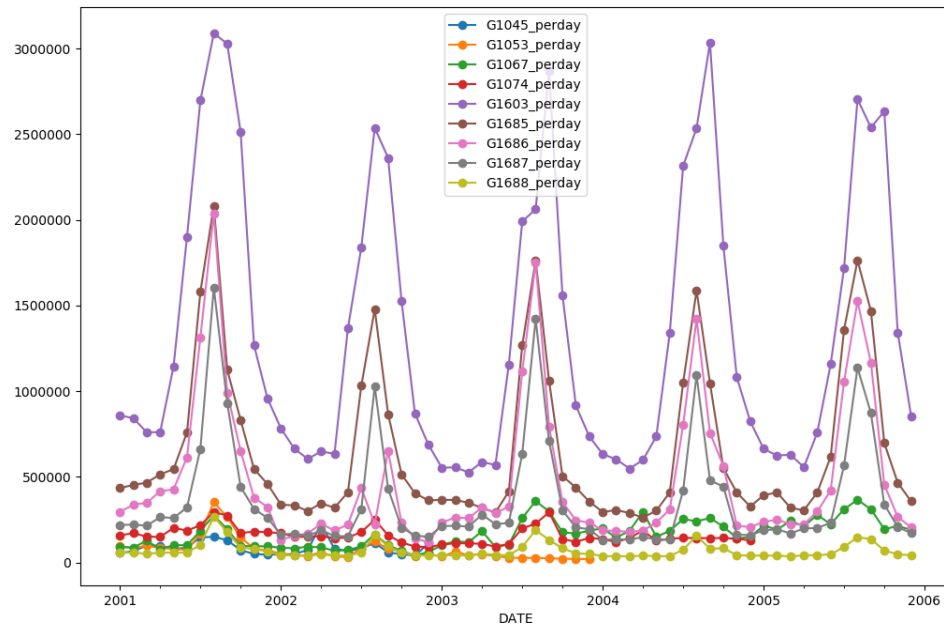
```
# normalise
def calculate_flow_per_day(df, lookup_gdf):
    """ convert flow in m3/s => mm/day in new columns, `colnames` = ID + '_perday'

    value = runoff / size(m2) * 1000 (mm in m) * 86,400 (s in day)
    Steps:
    1) normalise per unit area
        runoff (m3) / m2
    2) Convert m => mm
        * 1000
    3) convert s => days
        * 86,400
    4)
    """
    for ID in lookup_gdf.ID:
        drainage_area = lookup_gdf.query(f'ID == "{ID}"').DrainArLDD.values[0]
        # TODO: what units is DrainArLDD in?
        # df[ID+'_norm'] = df[ID].apply(lambda runoff: ((runoff*1e9) / 86_400) / drainage_area )
        df[ID + '_perday'] = df[ID].apply(lambda runoff: ((runoff/(drainage_area)) * 86_400 * 1000) )

    return df
```



Monthly Mean Runoff Values [mm day-1]
value = runoff / size(m2) * 1000 (mm in m) * 86,400 (s in day)



Monthly Mean Runoff Values [mm day-1]
value = runoff / size(m2) * 1000 (mm in m) * 86,400 (s in day)

