## remove distortion from edi

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## 1 Remove Distrotion from an edi

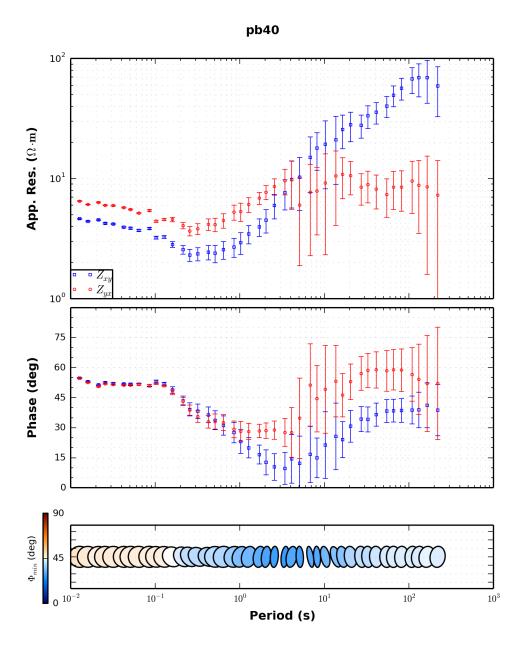
```
In [37]: %matplotlib inline
    import matplotlib.pyplot as plt
    plt.rcParams['savefig.dpi'] = 300

In [19]: import mtpy.core.mt as mt

1.1 Input .edi file name
In [20]: edi_fn = r"c:\Users\jrpeacock\Documents\GitHub\mtpy\examples\data\edi_files\pb40c.edi"
In [21]: mt_obj = mt.MT(edi_fn)
    ...nulled all attributes of current MTedi.Edi instance.
reading in Edi file: c:\Users\jrpeacock\Documents\GitHub\mtpy\examples\data\edi_files\pb40c.edi

1.2 Plot MT response
In [38]: mt_plot = mt_obj.plot_mt_response(plot_pt='y')
    ...nulled all attributes of current MTedi.Edi instance.
```

reading in Edi file: c:\Users\jrpeacock\Documents\GitHub\mtpy\examples\data\edi\_files\pb40c.edi



In [23]: help(mt\_obj.remove\_distortion)

Help on method remove\_distortion in module mtpy.core.mt:

remove\_distortion(self) method of mtpy.core.mt.MT instance remove distortion following Bibby et al. [2005].

if you want to write a new edi file with distortion removed you can do this by:

```
>>> import mtpy.core.mt as mt
>>> mt1 = mt.MT(fn=r"/home/mt/edi_files/mt01.edi")
```

```
>>> D, new_z = mt1.remove_distortion()
>>> mt1.write_edi_file(new_fn=r"/home/mt/edi_files/mt01_dr.edi",
```

## 1.3 Remove distortion following Bibby et al. (2005)

## 1.4 Plot new MT response

