Fig. 2

```
cd ./src
Name = 'Observation_scale02';
dataIdStr = '146';
ClippingRange = [27601,28100];
NNpair = [27895,27932,2325,2362;5155,5179,212,236];
Xinterval = [50]
ZnormOn = true;
LineWidth_GT = [1.5,1.5];
Pub_GDFlex_observationWithSnippet(dataIdStr,ClippingRange,NNpair,Xinterval,Name,ZnormOn,LineWidth_GT);
```
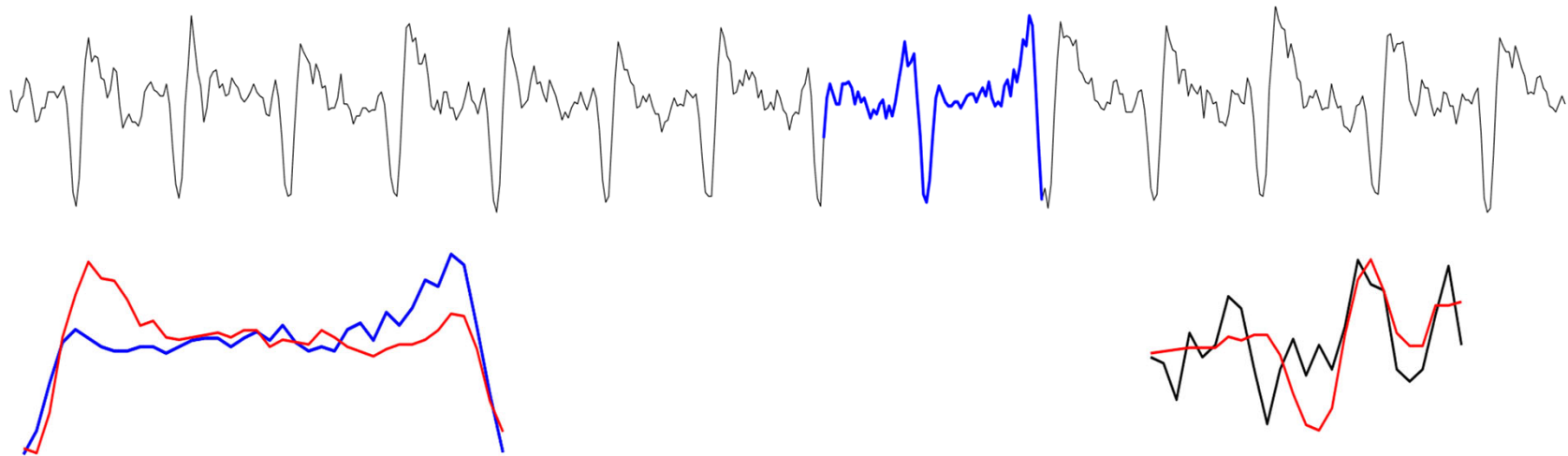
Fig. 3

```
cd ./src
Name = 'Observation_scale01';
dataIdStr = '191';
ClippingRange = [140001,146000];
NNpair = [143270,143572,34147,34449;...
129843,130203,21861,22221;...
143389,143572,28171,28354];
Xinterval = [150,150];
ZnormOn = true;
LineWidth_GT = [1.5,1.5];
Pub_GDFlex_observationWithSnippet(dataIdStr,ClippingRange,NNpair,Xinterval,Name,ZnormOn,LineWidth_GT);
```
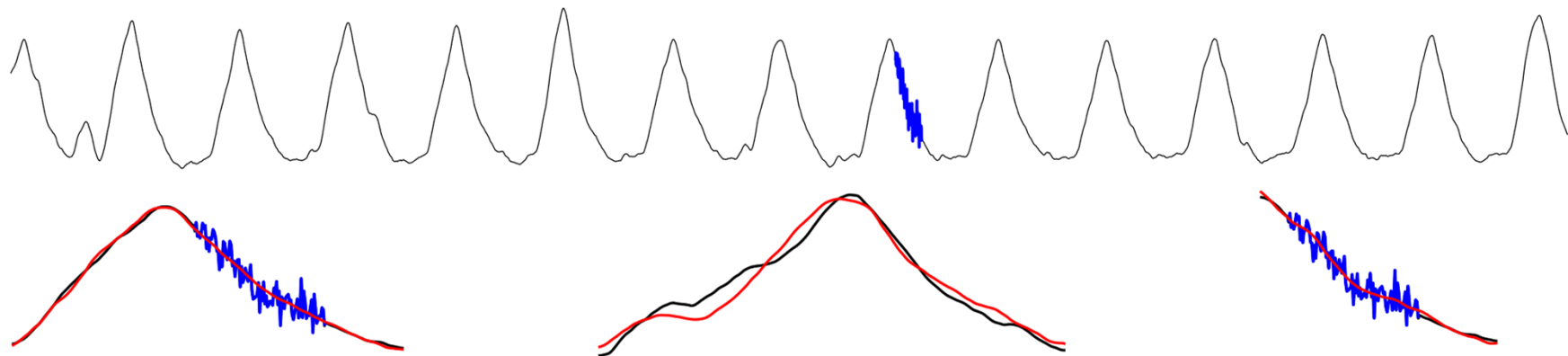
Fig. 4

```
cd ./src
Name = 'Observation_scale34';
dataIdStr = '206';
ClippingRange = [28501,29500];
NNpair = [29081,29151,7604,7674;...
29081,29111,6560,6590; 29111,29150,23313,23352]; % 29111,29152,23313,23354];
Xinterval = [20,10];
ZnormOn = true;
LineWidth_GT = [1.5,1.5];
Pub_GDFlex_observationWithSnippet(dataIdStr,ClippingRange,NNpair,Xinterval,Name,ZnormOn,LineWidth_GT);
```
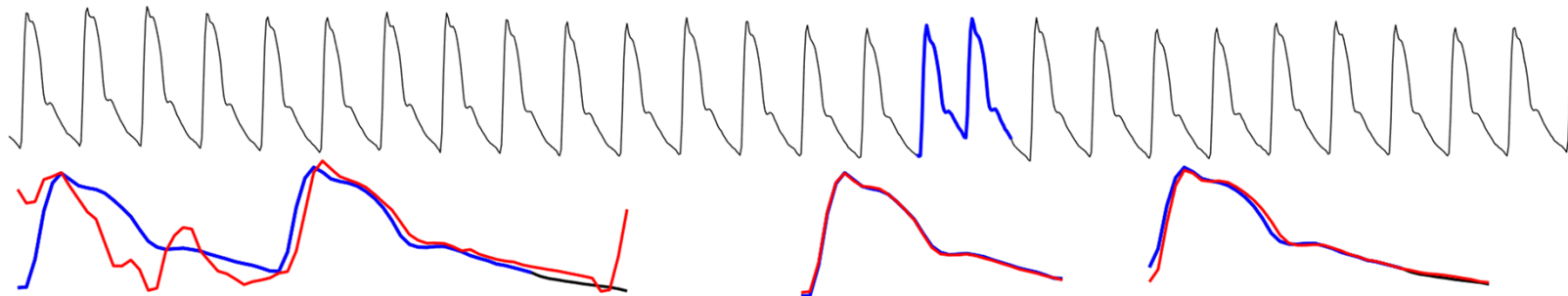
Fig. 5

```
cd ./src
Name = 'Observation_znorm';
dataIdStrList = {'077','145','145','116'};
NNpair = [110799,110803,54649,54653;...
 17226,17243,2057,2074;...
17201,17233,4180,4212;...
5550,5561,823,834];
Pub_GDFlex_observation_Row2(dataIdStrList,NNpair,Name);
```
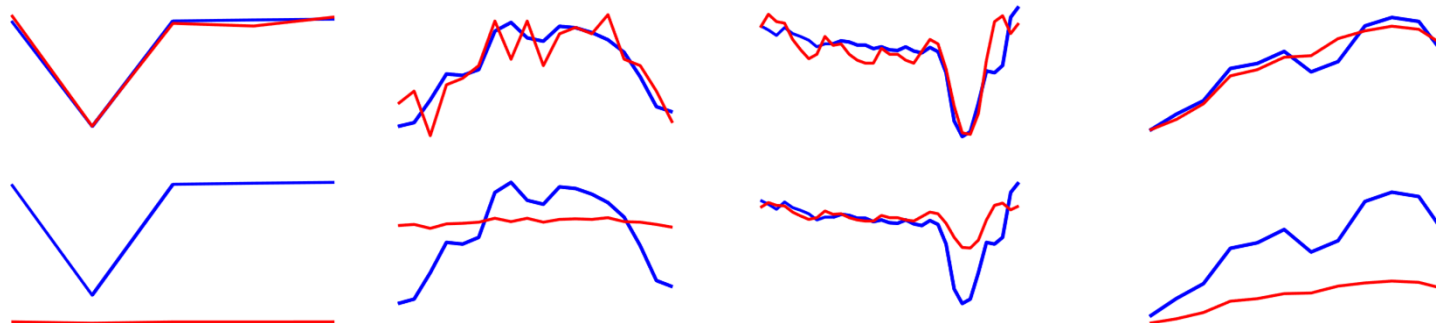
Fig. 6

```
cd ./src
Name = 'Observation_localizedMismatch';
dataIdStr = '247';
ClippingRange = [120001,123000];
NNpair = [121735,122113,15648,16026;...
145658,145988,2836,3166];
Xinterval = [20]
ZnormOn = true;
LineWidth_GT = [2.5,2];
Pub_GDFlex_observationWithSnippet(dataIdStr,ClippingRange,NNpair,Xinterval,Name,ZnormOn,LineWidth_GT);
```
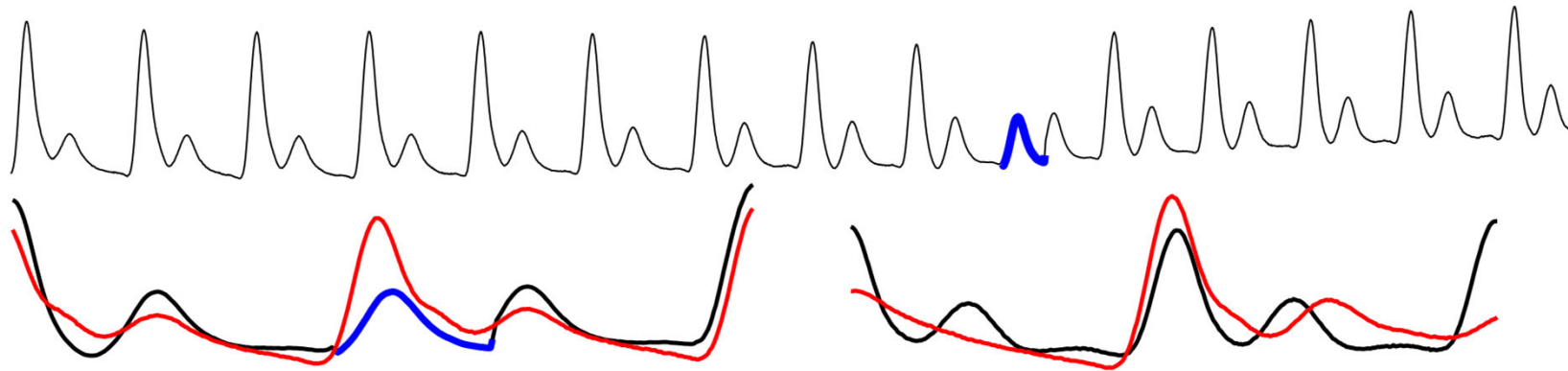
Fig. 7

```
cd ./src
Name = 'Observation_PV3noise';
dataIdStr = '102';
ClippingRange = [18501,20500];
NNpair = [19197,19385,9511,9699;...
21417,21569,1684,1836];
Xinterval = [50]
ZnormOn = true;
LineWidthGT = [1.5,2];
Pub_GDFlex_observationWithSnippet(dataIdStr,ClippingRange,NNpair,Xinterval,Name,ZnormOn,LineWidth_GT);
```