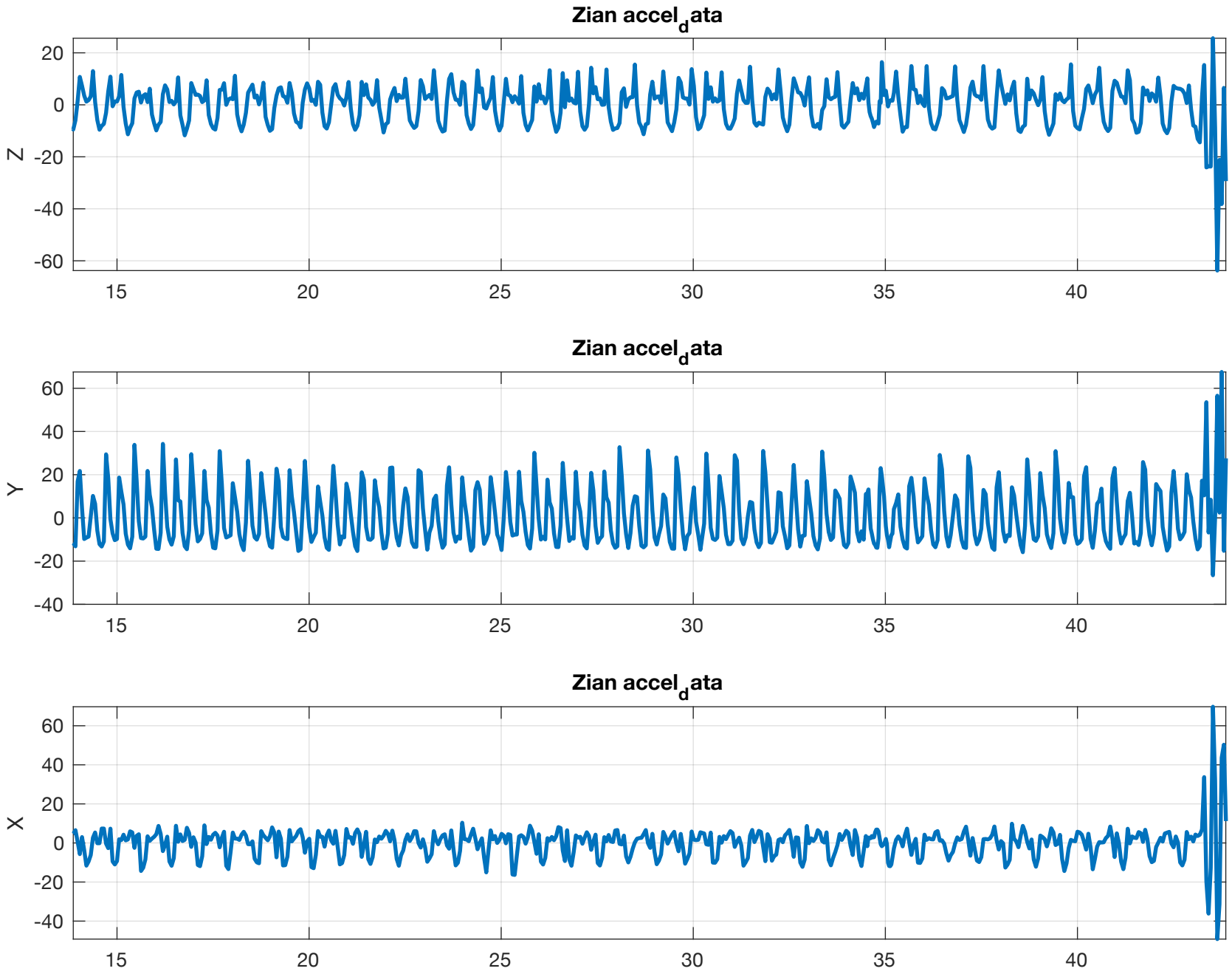
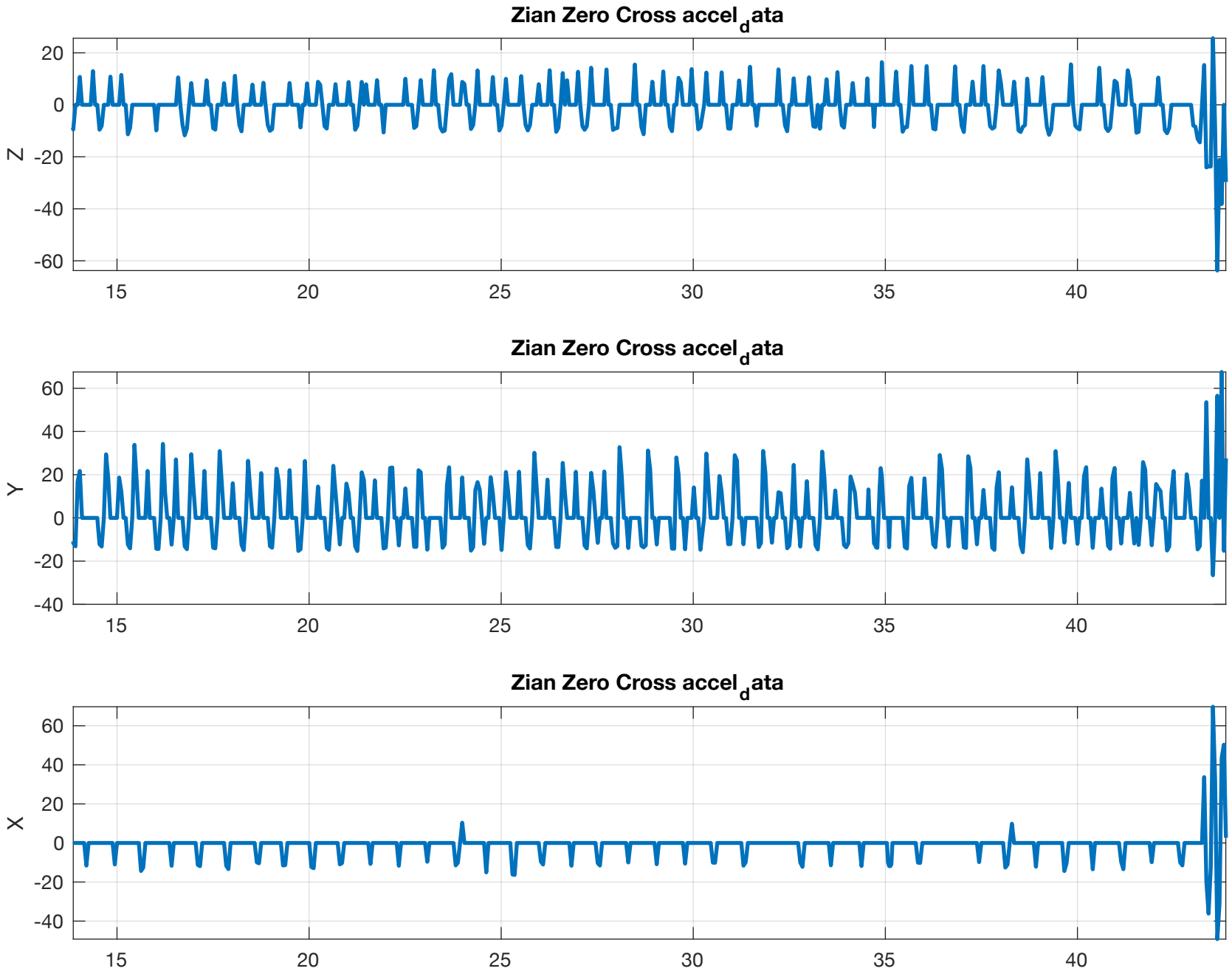
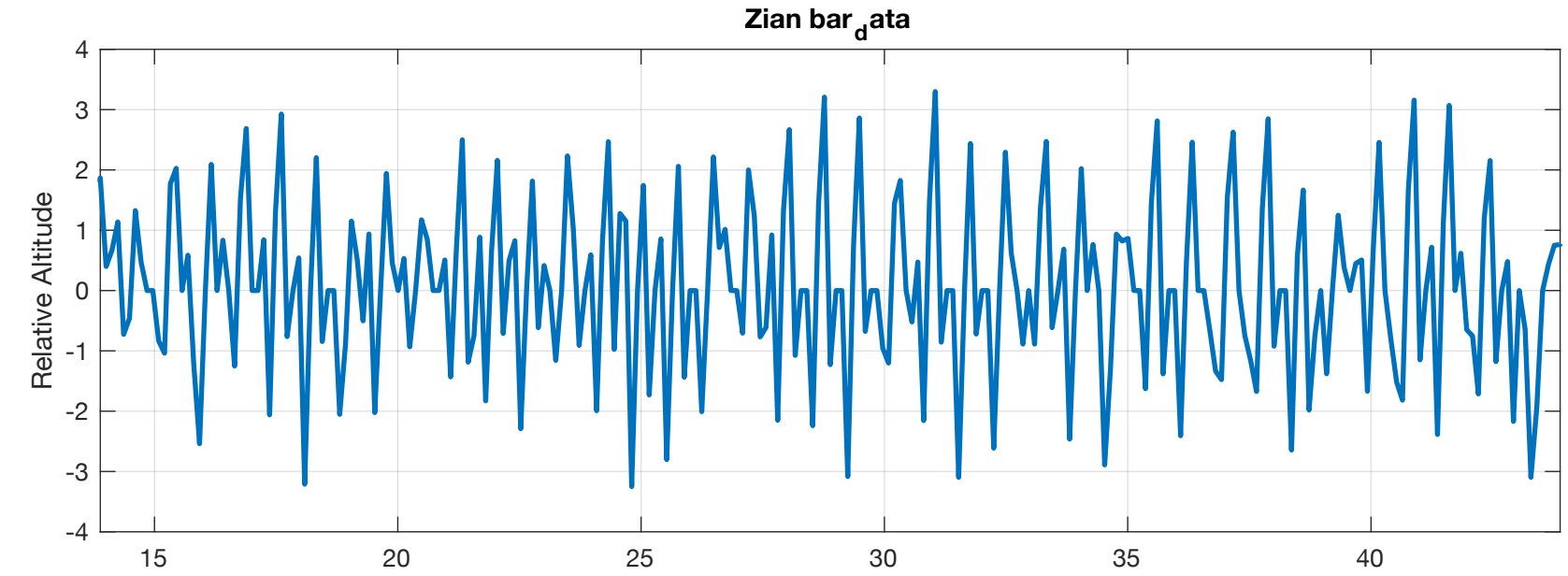
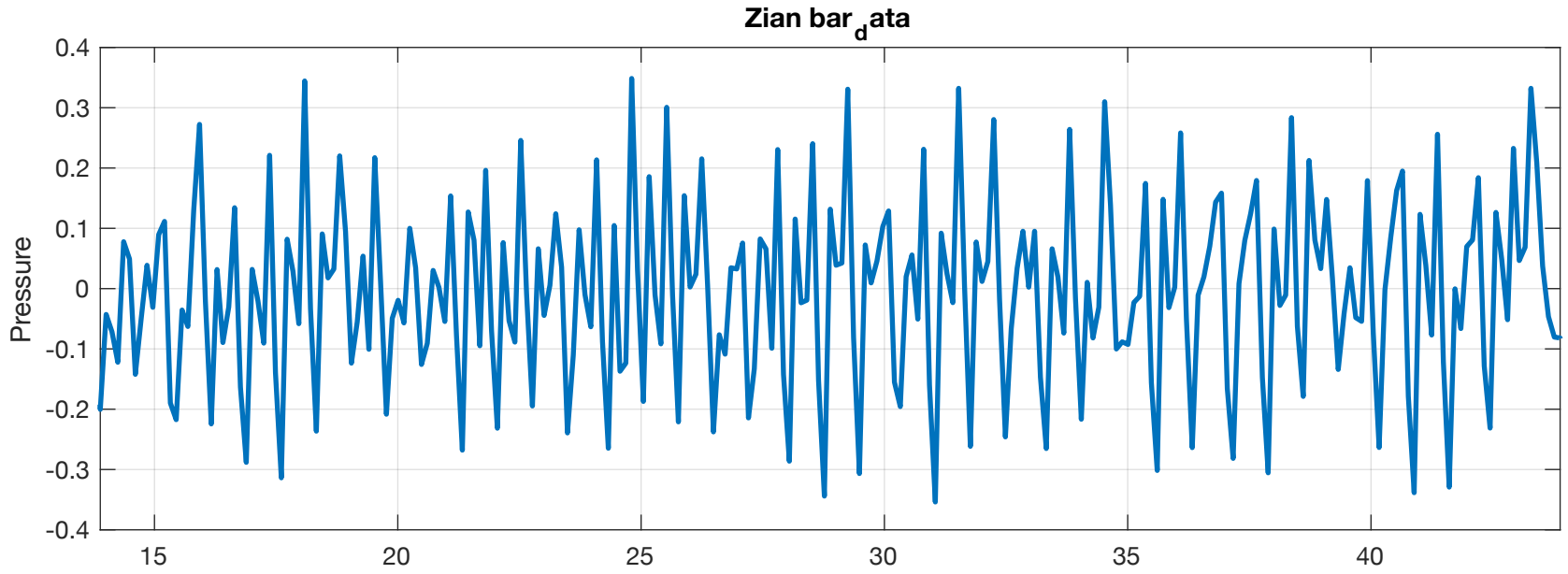
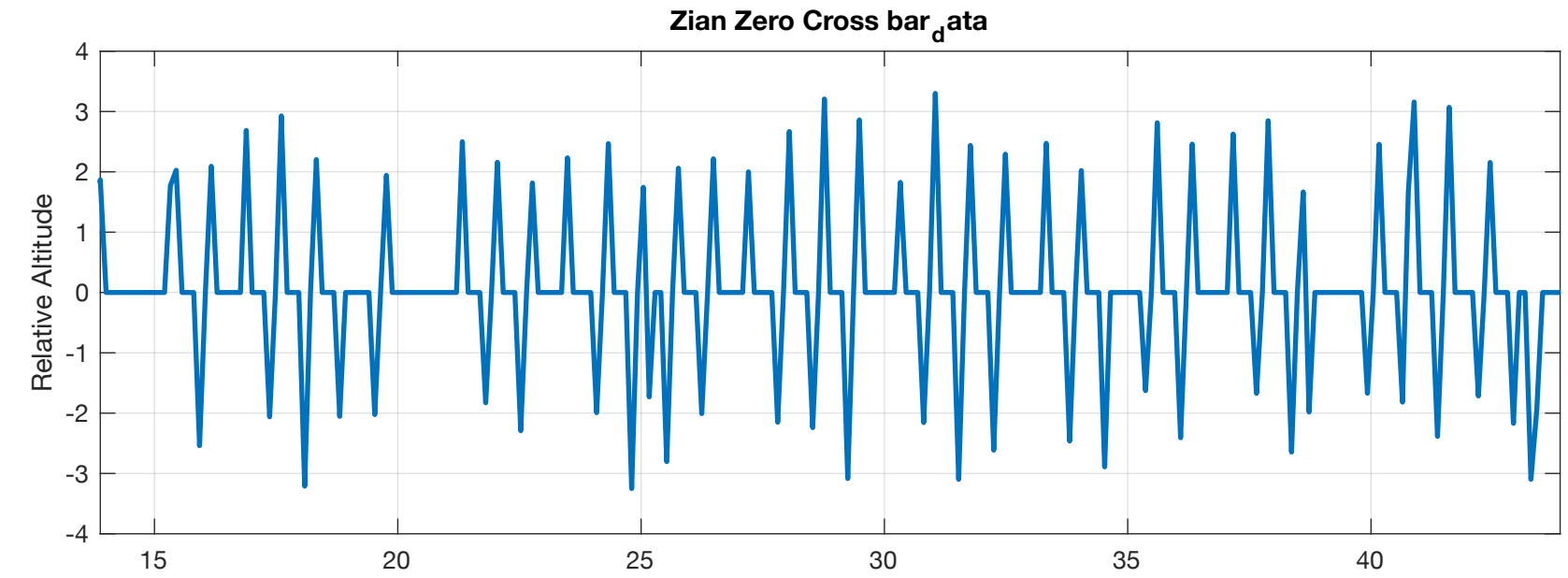

Zian accel_data
Z
20
0
-20
-40
-60
15
20
25
30
35
40
Zian accel_data
Y
60
40
20
0
-20
-40
15
20
25
30
35
40
Zian accel_data
X
60
40
20
0
-20
-40
15
20
25
30
35
40

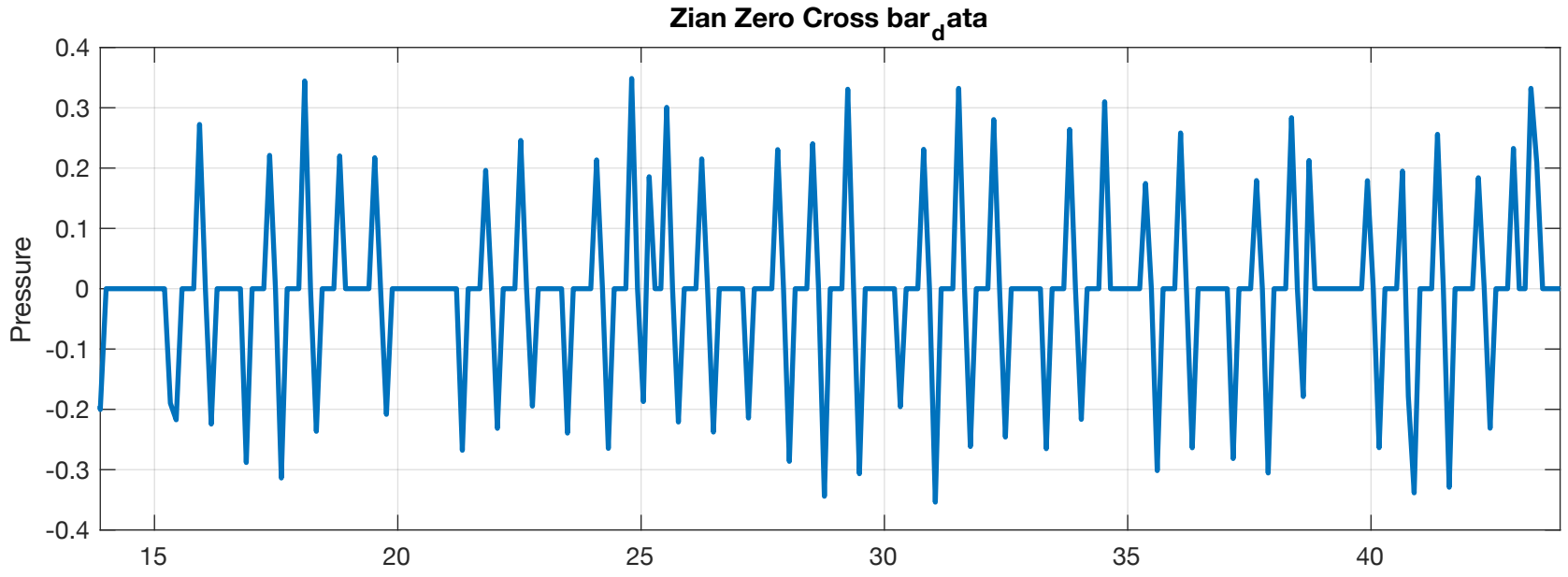

Zian Zero Cross accel_data
Z
20
0
-20
-40
-60
15
20
25
30
35
40
Zian Zero Cross accel_data
Y
60
40
20
0
-20
-40
15
20
25
30
35
40
Zian Zero Cross accel_data
X
60
40
20
0
-20
-40
15
20
25
30
35
40

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -126.000 | -113.000 | 20.000 | 22.500 | "accel_data" |
| 'Y' | -107.000 | -33.000 | 38.000 | 7.500 | "accel_data" |
| 'X' | -142.000 | -118.000 | 19.000 | 65.500 | "accel_data" |

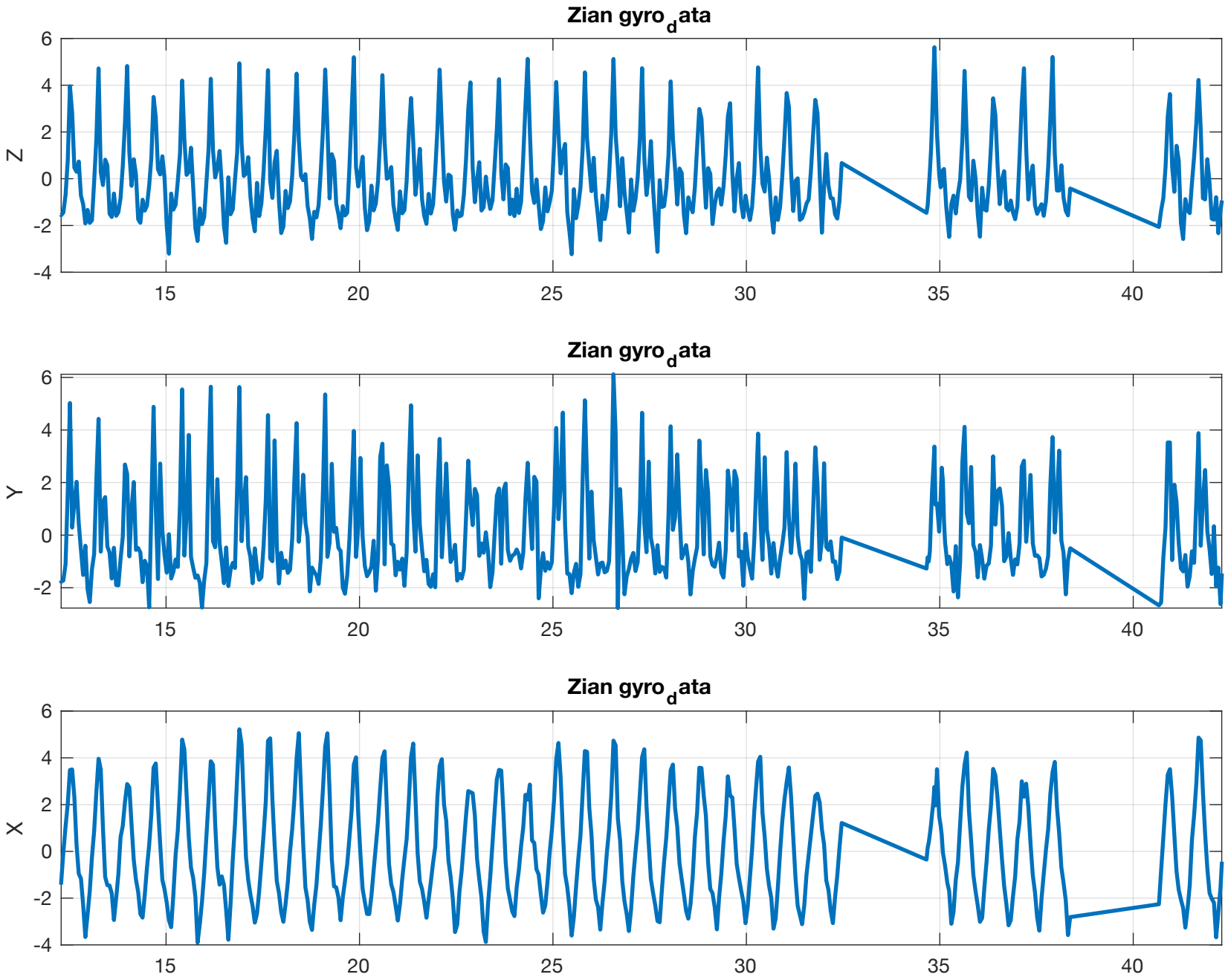

Zian bar_data
Relative Altitude
4
3
2
1
0
-1
-2
-3
-4
15
20
25
30
35
40

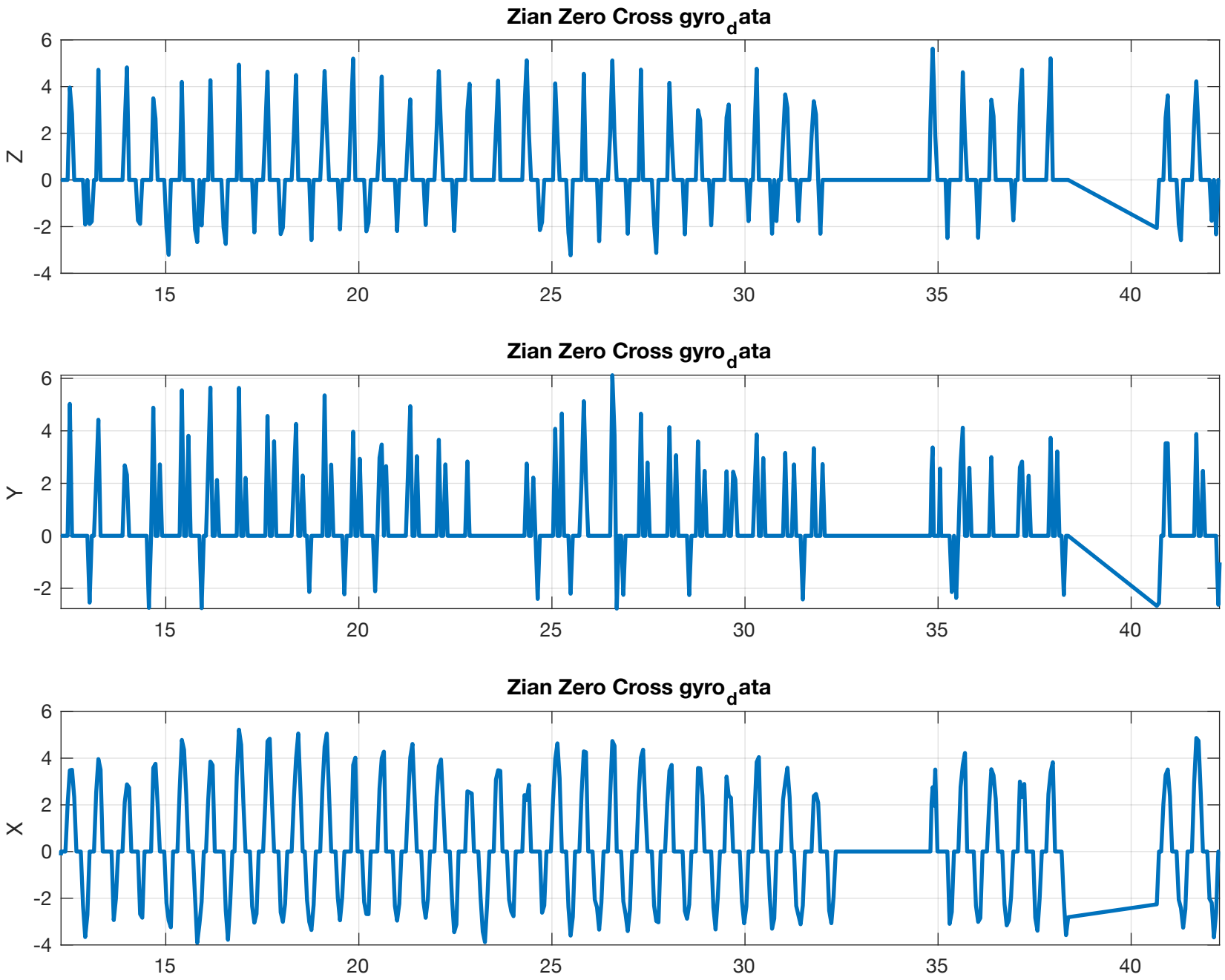

Zian bar_data
Pressure
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
15
20
25
30
35
40


Zian Zero Cross bar_data
Relative Altitude
4
3
2
1
0
-1
-2
-3
-4
15
20
25
30
35
40

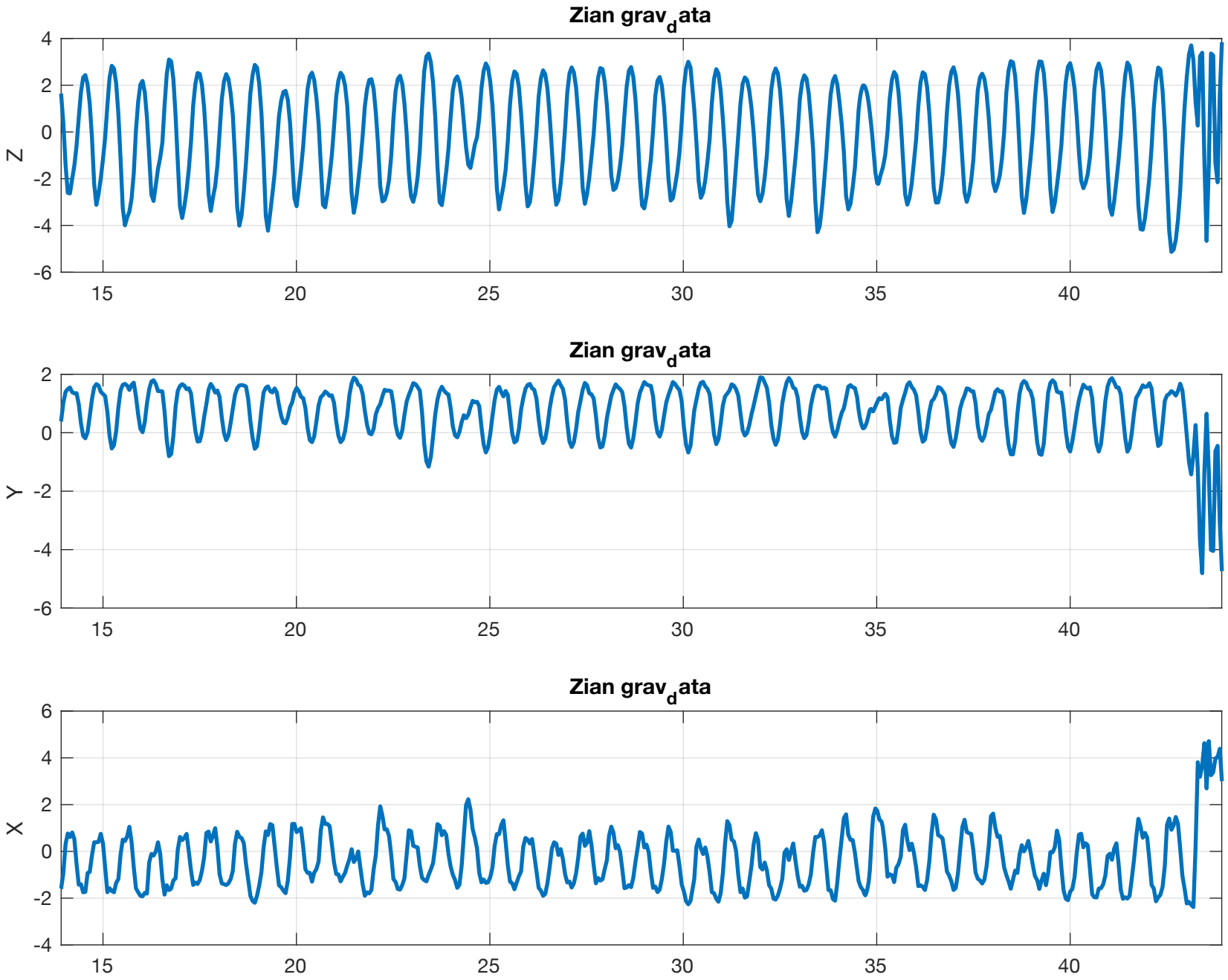

Zian Zero Cross bar_data
Pressure
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
15
20
25
30
35
40

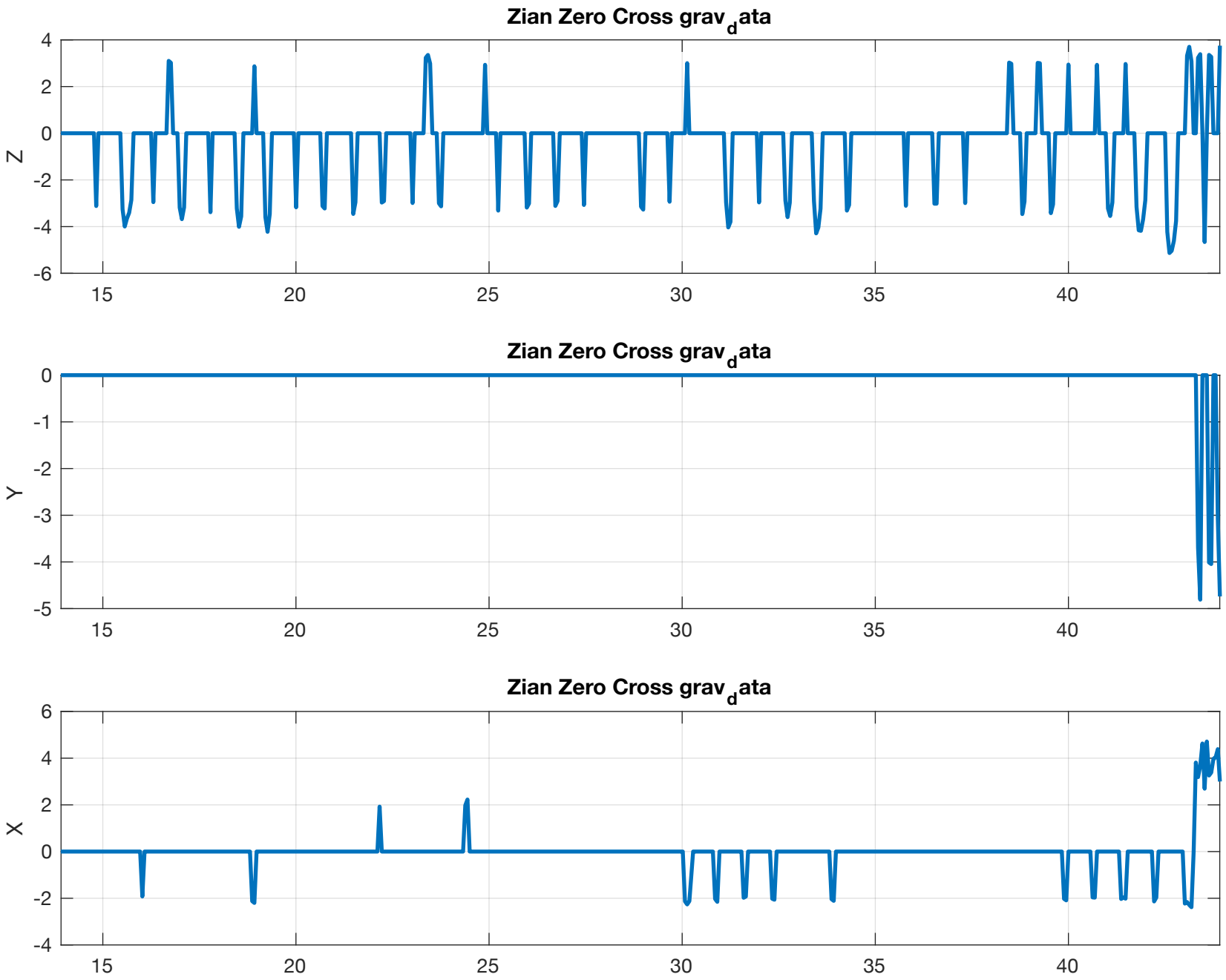
| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| "Relative Altitude" | -15.000 | 5.000 | 53.000 | 52.750 | "bar_data" |
| "Pressure" | -25.000 | -15.000 | 49.000 | 52.750 | "bar_data" |


Zian gyro_data
Z
6
4
2
0
-2
-4
15
20
25
30
35
40
Zian gyro_data
Y
6
4
2
0
-2
15
20
25
30
35
40
Zian gyro_data
X
6
4
2
0
-2
-4
15
20
25
30
35
40

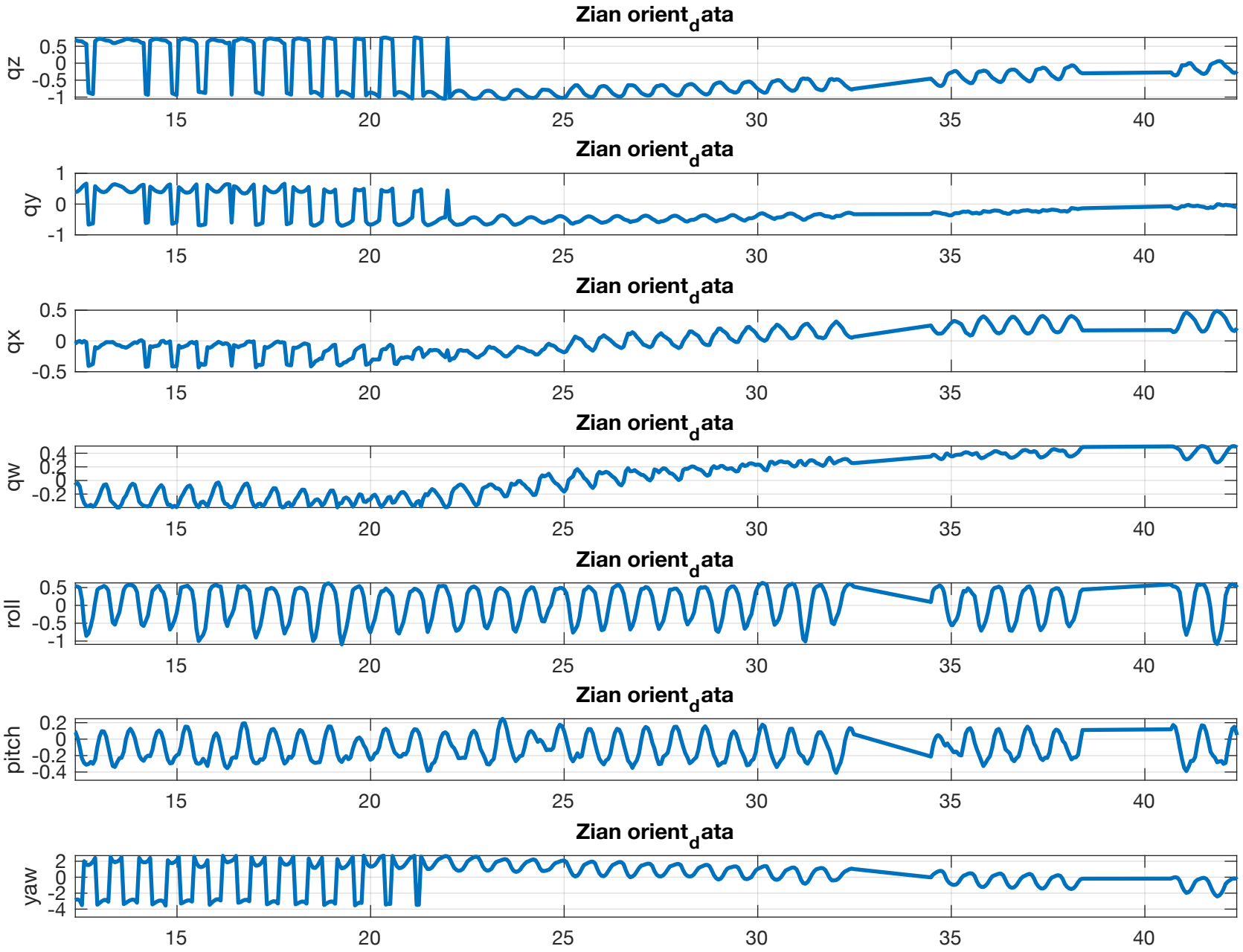

Zian Zero Cross gyro_data
Z
6
4
2
0
-2
-4
15
20
25
30
35
40
Zian Zero Cross gyro_data
Y
6
4
2
0
-2
15
20
25
30
35
40
Zian Zero Cross gyro_data
X
6
4
2
0
-2
-4
15
20
25
30
35
40

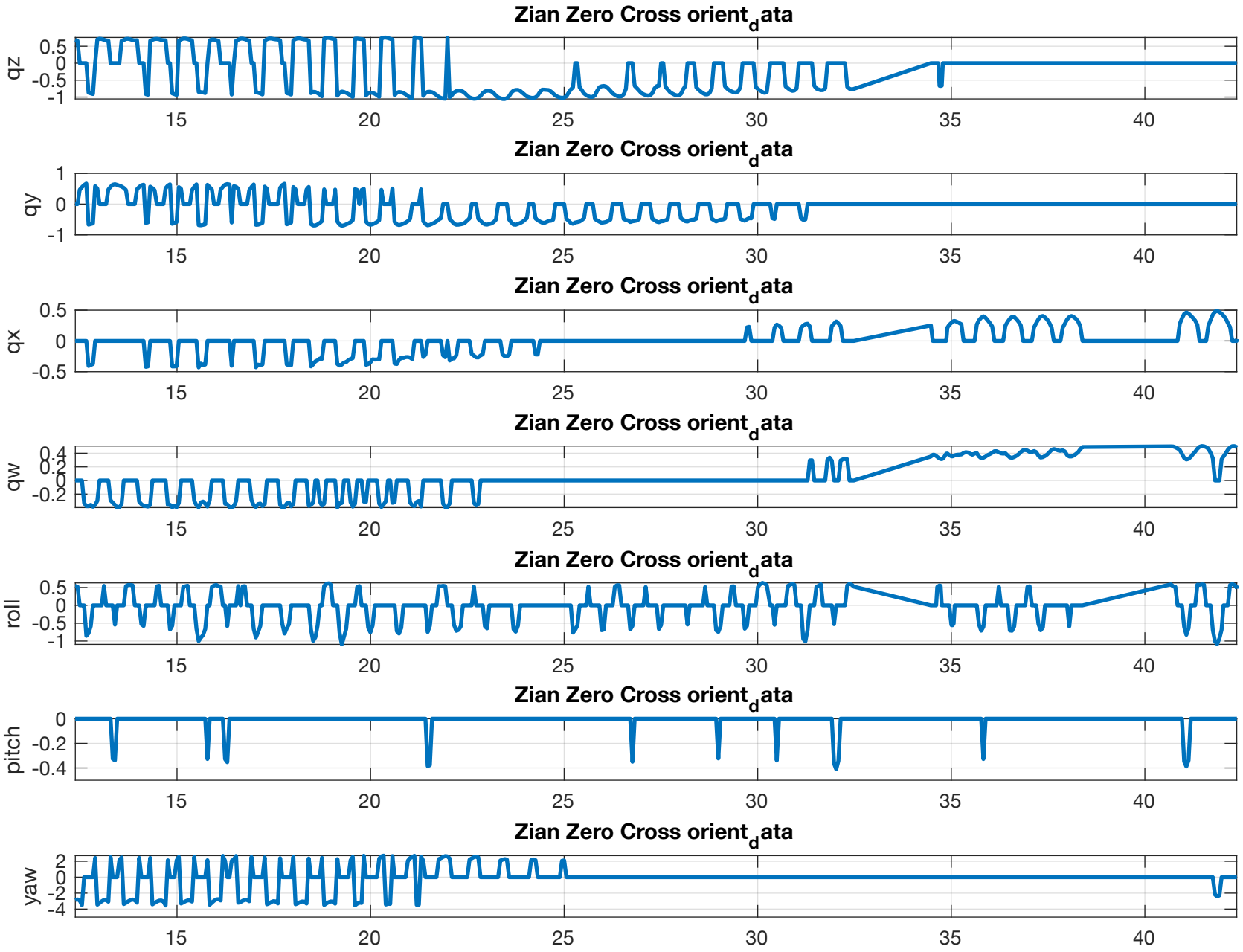
| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -89.000 | -38.000 | 38.000 | 50.000 | "gyro_data" |
| 'Y' | -120.000 | -46.000 | 36.000 | 41.500 | "gyro_data" |
| 'X' | -20.000 | -1.000 | 62.000 | 51.500 | "gyro_data" |


Zian grav_data
Z
4
2
0
-2
-4
-6
15
20
25
30
35
40
Zian grav_data
Y
2
0
-2
-4
-6
15
20
25
30
35
40
Zian grav_data
X
6
4
2
0
-2
-4
15
20
25
30
35
40


Zian Zero Cross grav_data
Z
4
2
0
-2
-4
-6
15
20
25
30
35
40
Zian Zero Cross grav_data
Y
0
-1
-2
-3
-4
-5
15
20
25
30
35
40
Zian Zero Cross grav_data
X
6
4
2
0
-2
-4
15
20
25
30
35
40

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | 2.000 | 20.000 | 73.000 | 64.250 | "grav_data" |
| 'Y' | -24.000 | 4.000 | 65.000 | 94.750 | "grav_data" |
| 'X' | -63.000 | -12.000 | 55.000 | 87.250 | "grav_data" |


Zian orientdata
qz
0.5
0
-0.5
-1
15
20
25
30
35
40
Zian orientdata
qy
1
0
-1
15
20
25
30
35
40
Zian orientdata
qx
0.5
0
-0.5
15
20
25
30
35
40
Zian orientdata
qw
0.4
0.2
0
-0.2
15
20
25
30
35
40
Zian orientdata
roll
0.5
0
-0.5
-1
15
20
25
30
35
40
Zian orientdata
pitch
0.2
0
-0.2
-0.4
15
20
25
30
35
40
Zian orientdata
yaw
2
0
-2
-4
15
20
25
30
35
40


Zian Zero Cross orientdata
qz
0.5
0
-0.5
-1
15
20
25
30
35
40
Zian Zero Cross orientdata
qy
1
0
-1
15
20
25
30
35
40
Zian Zero Cross orientdata
qx
0.5
0
-0.5
15
20
25
30
35
40
Zian Zero Cross orientdata
qw
0.4
0.2
0
-0.2
15
20
25
30
35
40
Zian Zero Cross orientdata
roll
0.5
0
-0.5
-1
15
20
25
30
35
40
Zian Zero Cross orientdata
pitch
0
-0.2
-0.4
15
20
25
30
35
40
Zian Zero Cross orientdata
yaw
2
0
-2
-4
15
20
25
30
35
40

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'qz' | -1.000 | 29.000 | 77.000 | 72.500 | "orient_data" |
| 'qy' | -20.000 | 28.000 | 76.000 | 62.500 | "orient_data" |
| 'qx' | -32.000 | 48.000 | 78.000 | 78.000 | "orient_data" |
| 'qw' | -11.000 | 39.000 | 84.000 | 77.250 | "orient_data" |
| 'roll' | 12.000 | 26.000 | 80.000 | 60.250 | "orient_data" |
| 'pitch' | -12.000 | 25.000 | 69.000 | 87.750 | "orient_data" |
| 'yaw' | -22.000 | 22.000 | 72.000 | 61.000 | "orient_data" |

| Sensor | Sensor Axis | Method | Error |
|---|---|---|---|
| 'accel_data' | "Y" | 'zero_cross' | 7.500 |
| 'bar_data' | "Relative Altitude" | 'findpeaks_above_zero' | 5.000 |
| 'gyro_data' | "X" | 'findpeaks_above_zero' | 1.000 |
| 'grav_data' | "Z" | 'findpeaks' | 2.000 |
| 'orient_data' | "qz" | 'findpeaks' | 1.000 |