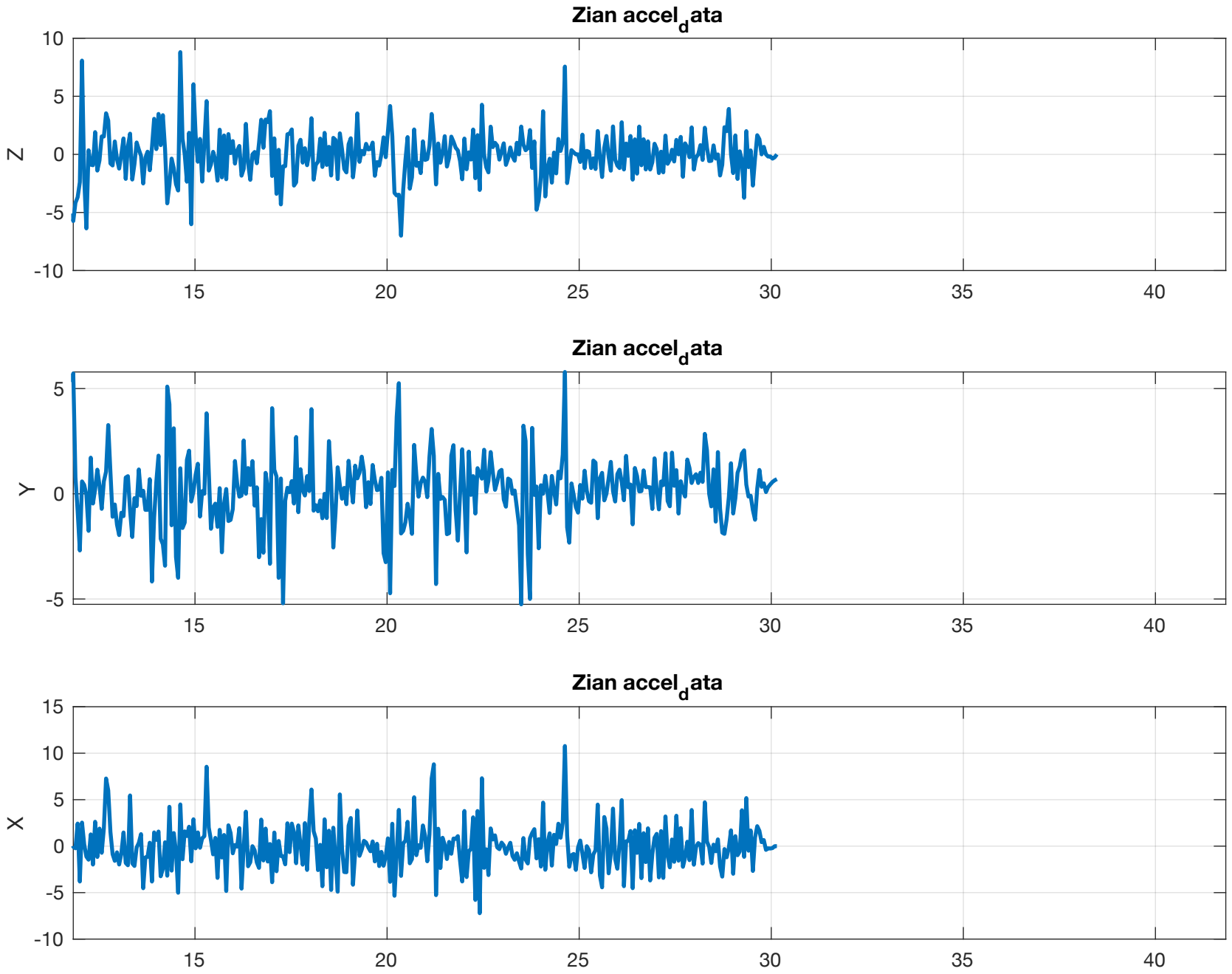
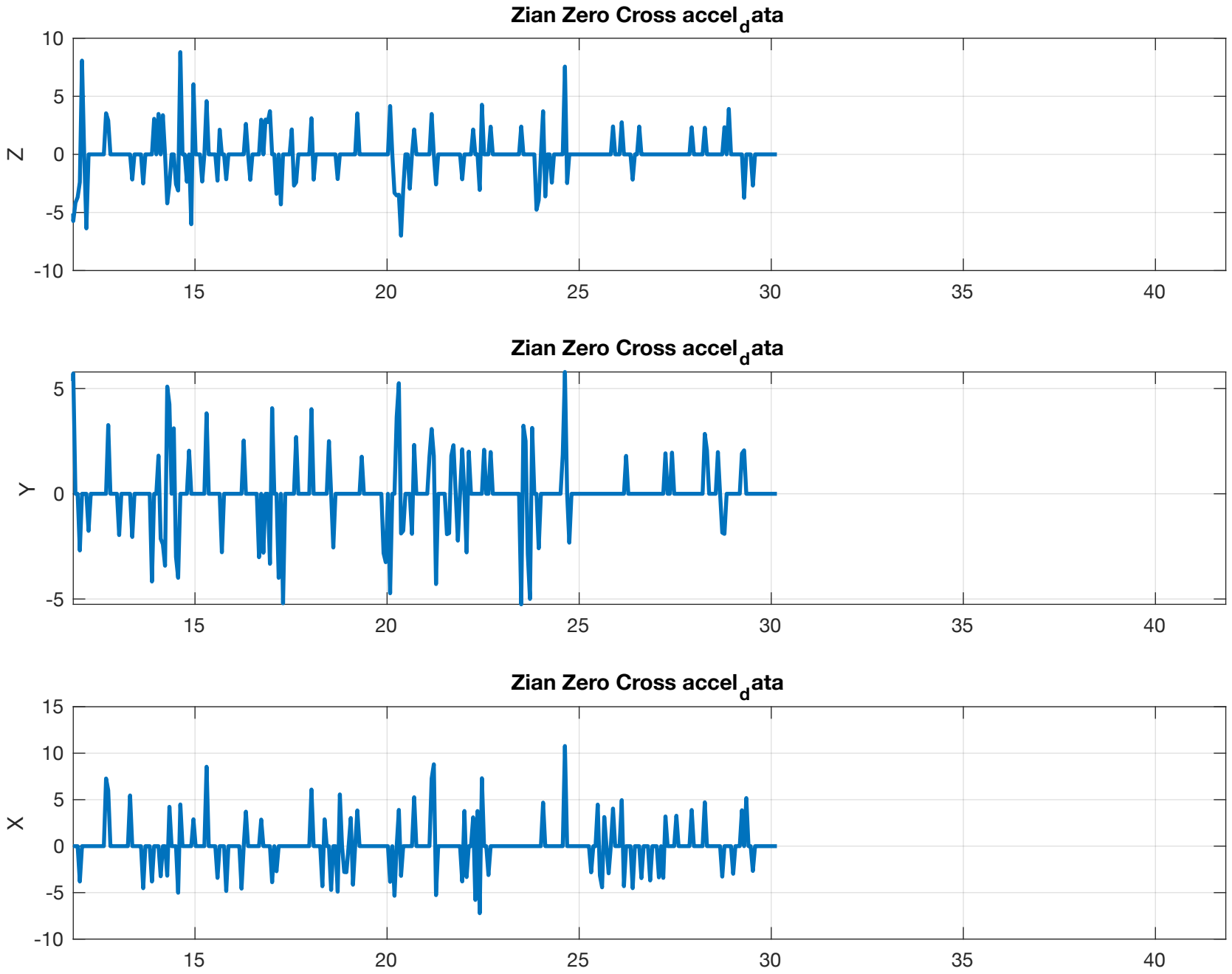
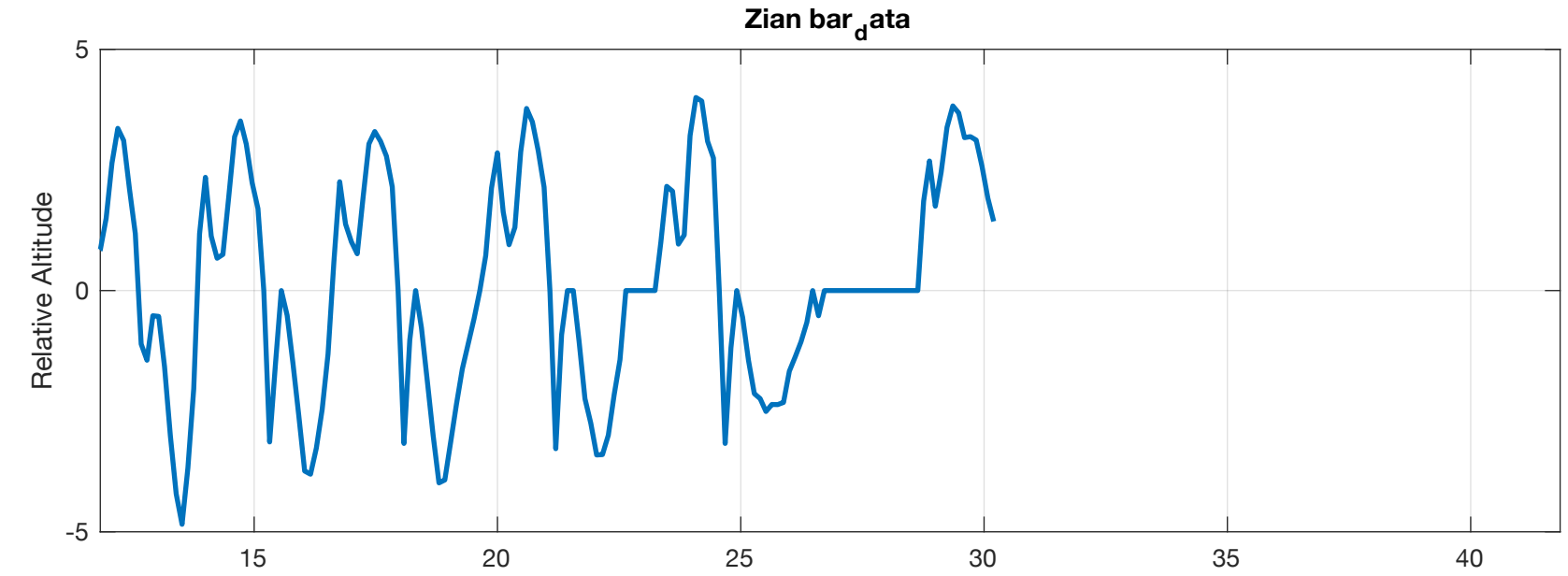
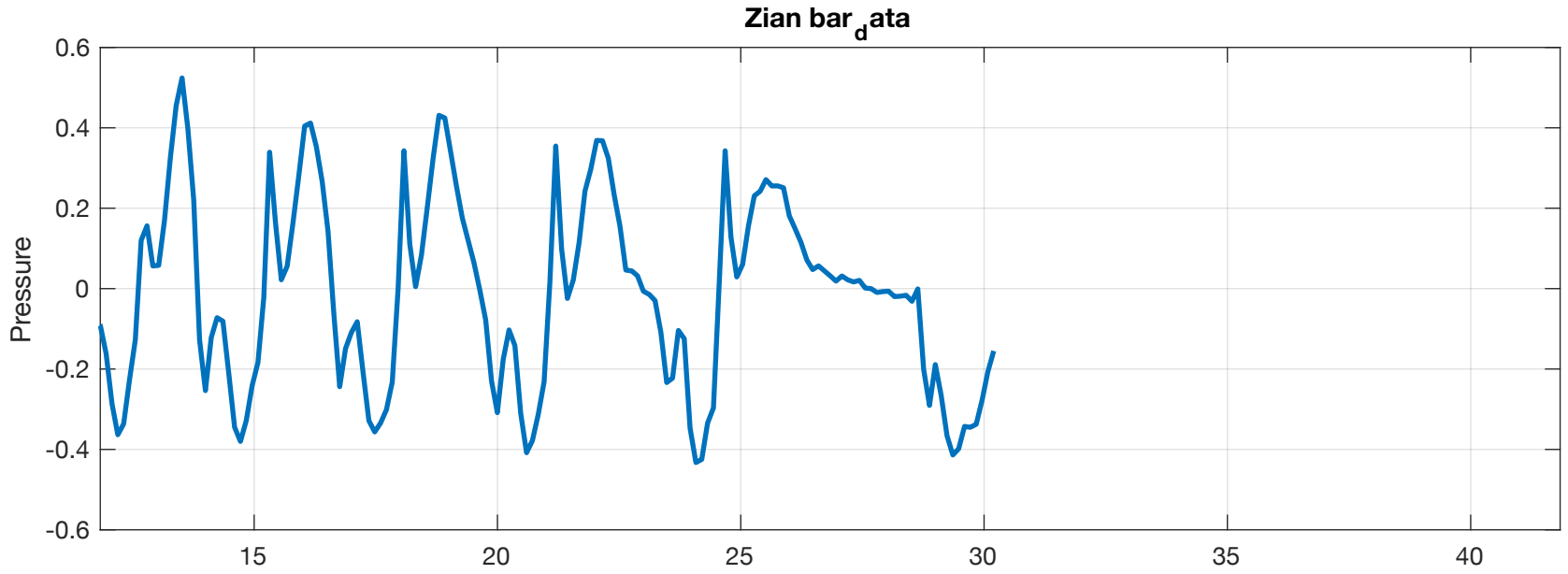
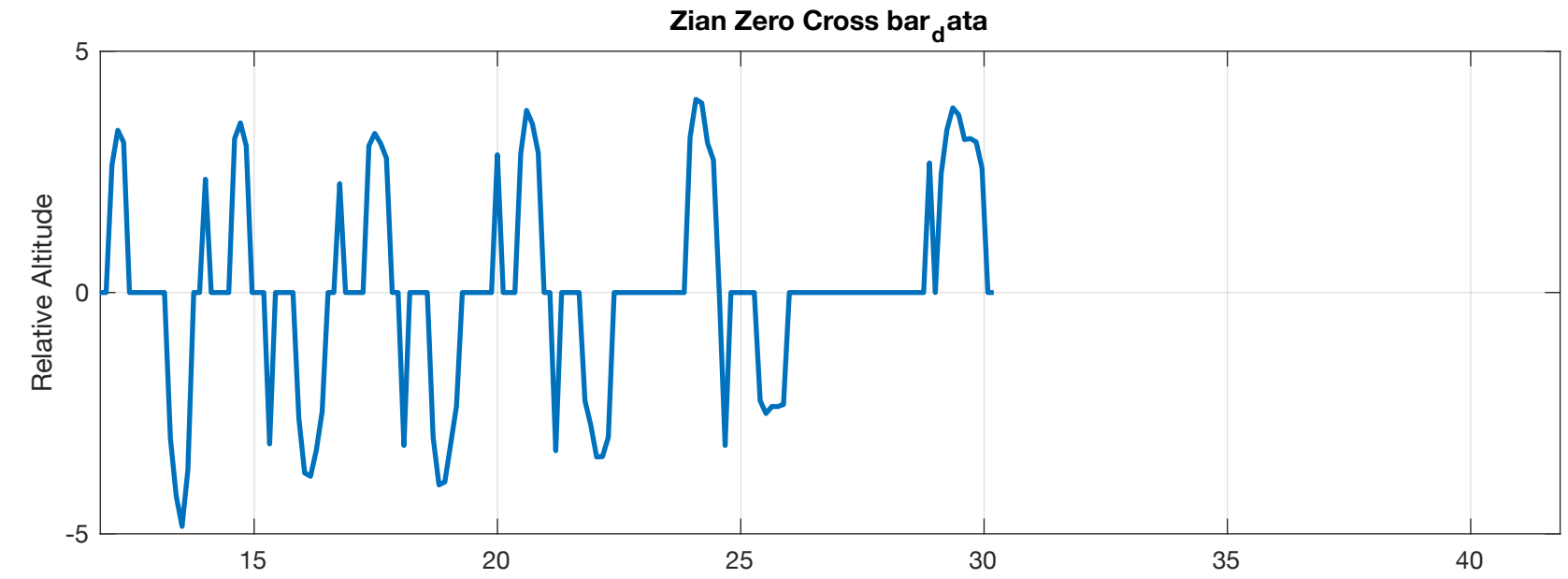

Zian accel_data
Z
10
5
0
-5
-10
15
20
25
30
35
40
Zian accel_data
Y
5
0
-5
15
20
25
30
35
40
Zian accel_data
X
15
10
5
0
-5
-10
15
20
25
30
35
40

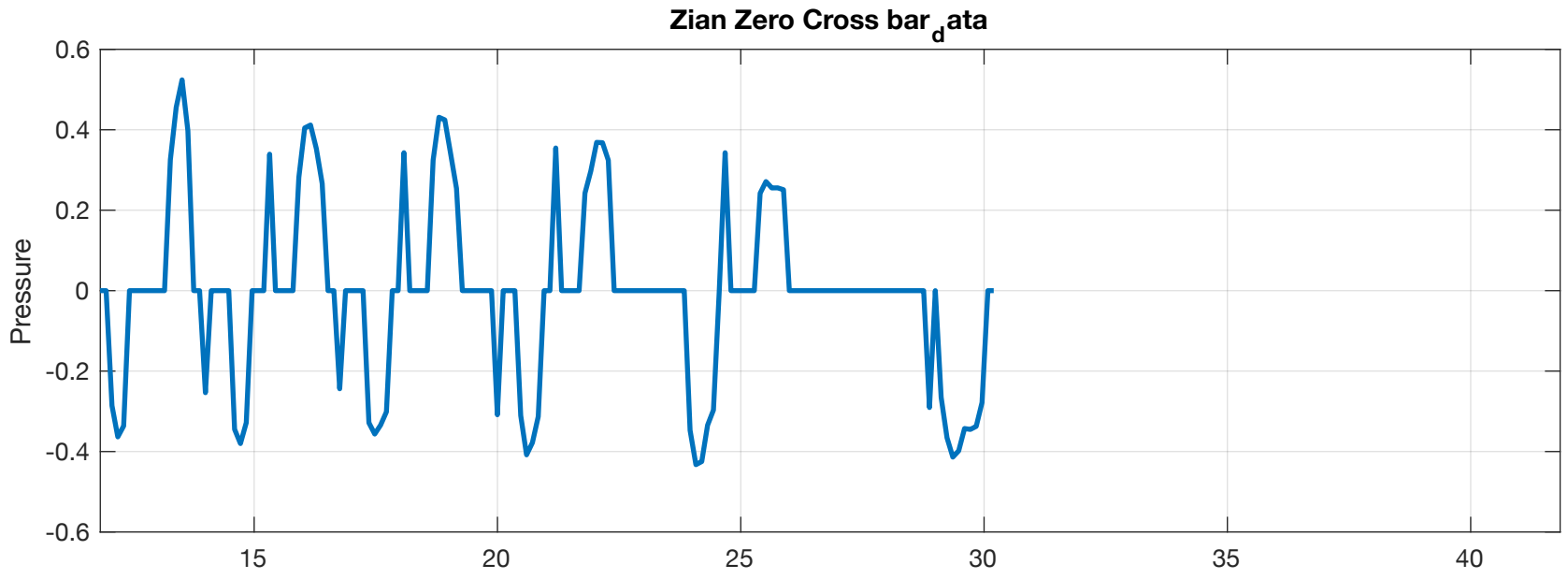

Zian Zero Cross accel_data
Z
10
5
0
-5
-10
15
20
25
30
35
40
Zian Zero Cross accel_data
Y
5
0
-5
15
20
25
30
35
40
Zian Zero Cross accel_data
X
15
10
5
0
-5
-10
15
20
25
30
35
40

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -139 | -123 | -41 | -33.5000 | "accel_data" |
| 'Y' | -132 | -110 | -39 | -35.5000 | "accel_data" |
| 'X' | -144 | -131 | -46 | -40 | "accel_data" |

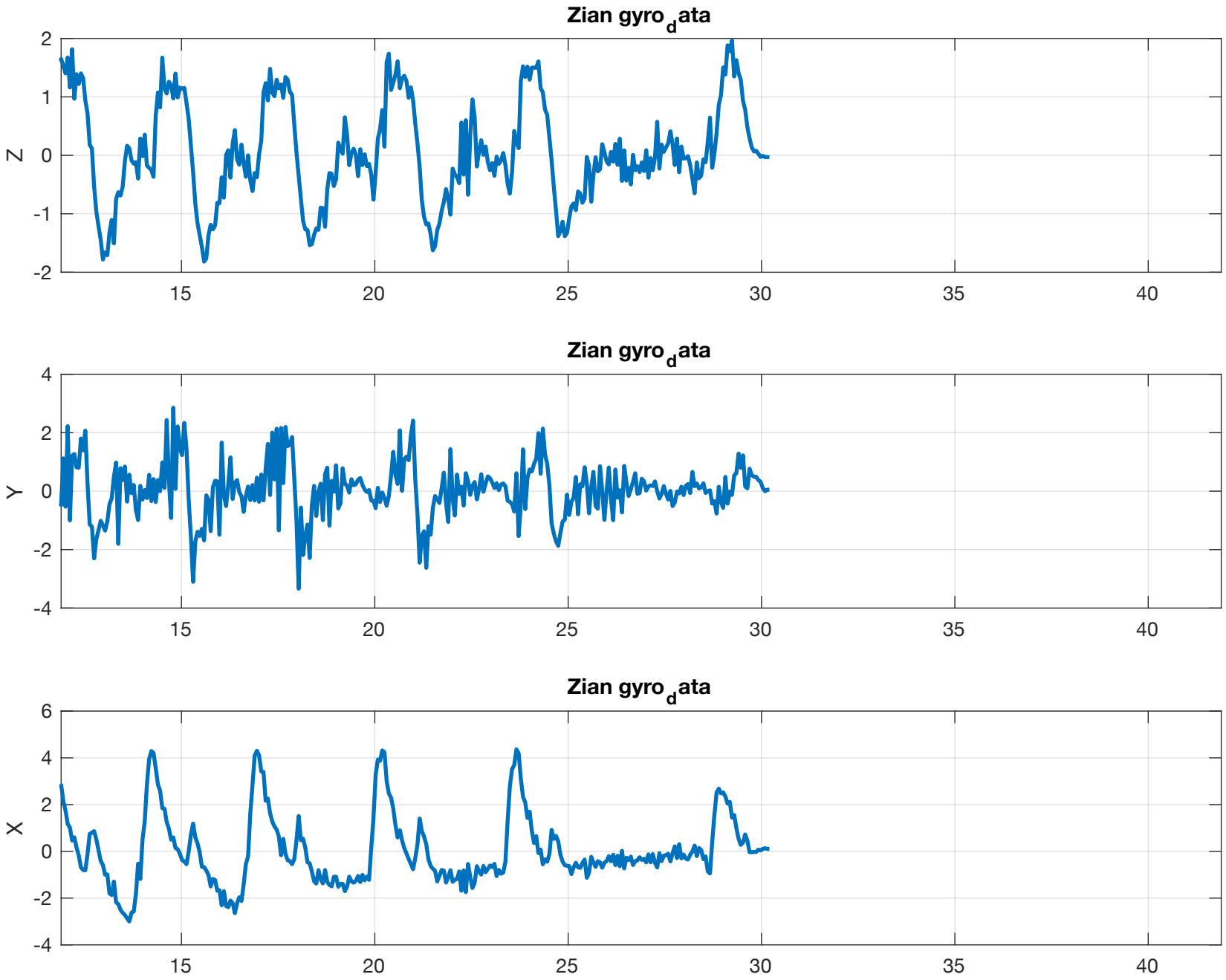

Zian bar_data
Relative Altitude
5
0
-5
15
20
25
30
35
40

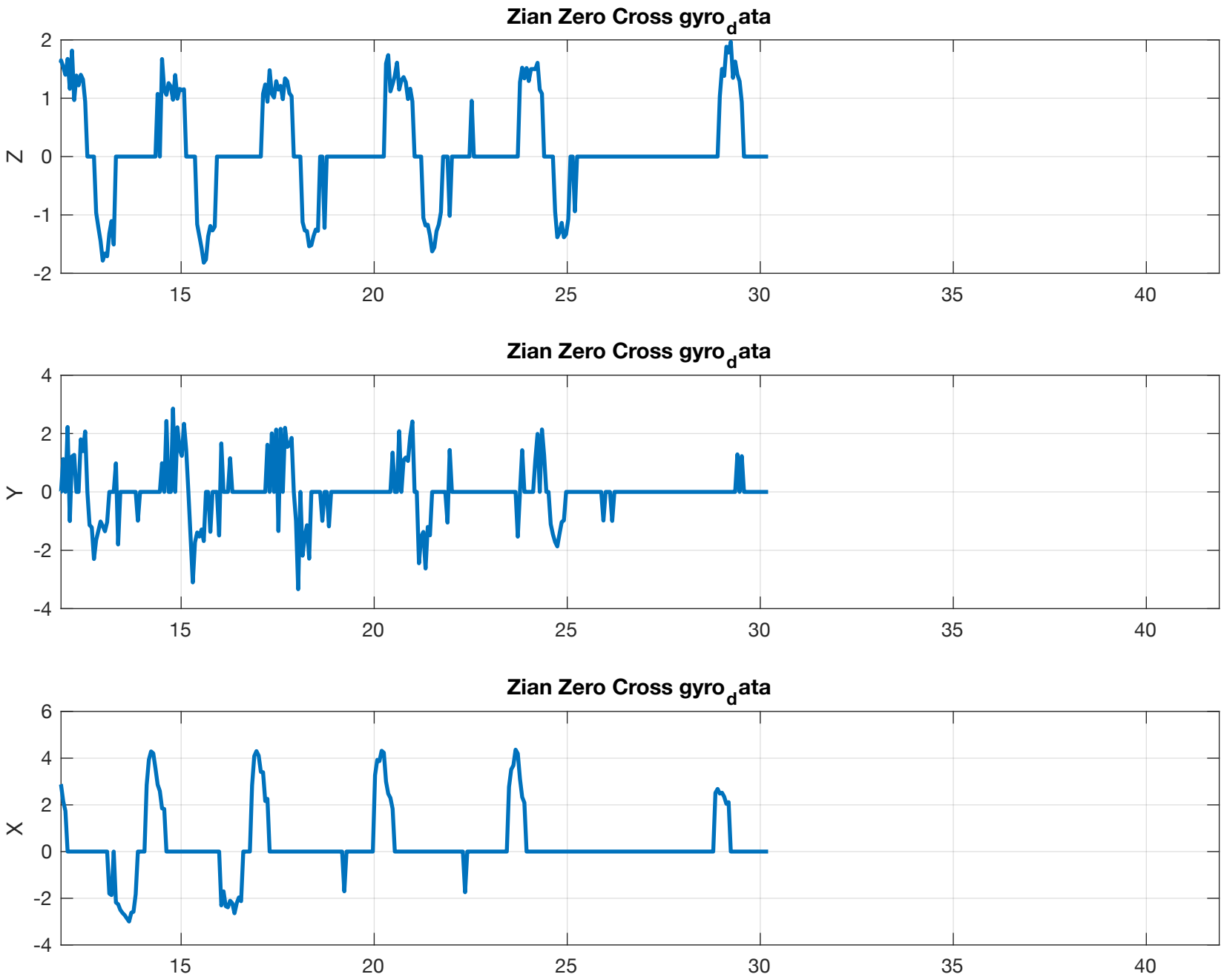

Zian bar_data
Pressure
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
15
20
25
30
35
40


Zian Zero Cross bar_data
Relative Altitude
5
0
-5
15
20
25
30
35
40

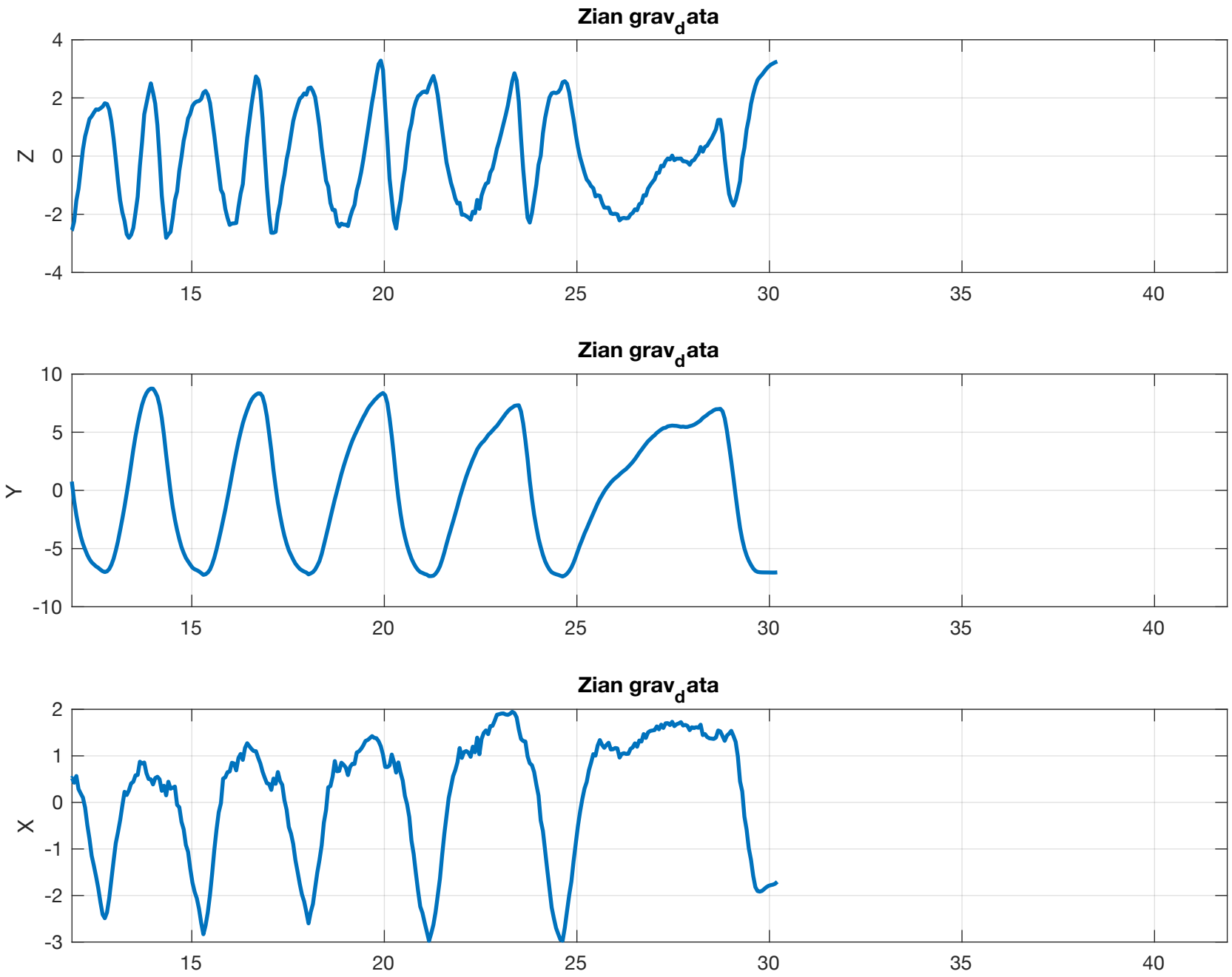

Zian Zero Cross bar_data
Pressure
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
15
20
25
30
35
40

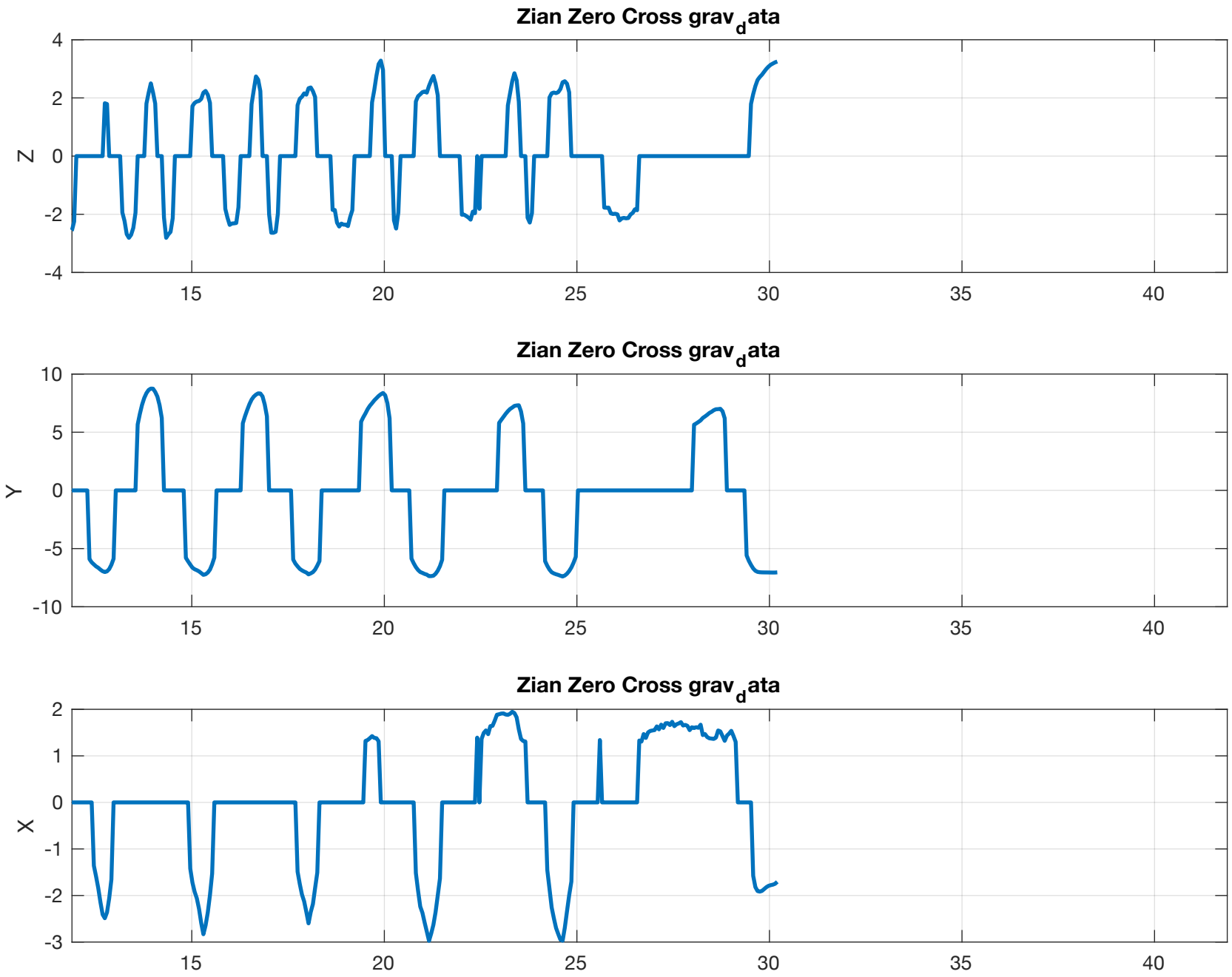
| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| "Relative Altitude" | -18 | -9 | 0 | -4.5000 | "bar_data" |
| "Pressure" | -23 | -11 | 0 | -4.5000 | "bar_data" |


Zian gyro_data
Z
2
1
0
-1
-2
15
20
25
30
35
40
Zian gyro_data
Y
4
2
0
-2
-4
15
20
25
30
35
40
Zian gyro_data
X
6
4
2
0
-2
-4
15
20
25
30
35
40

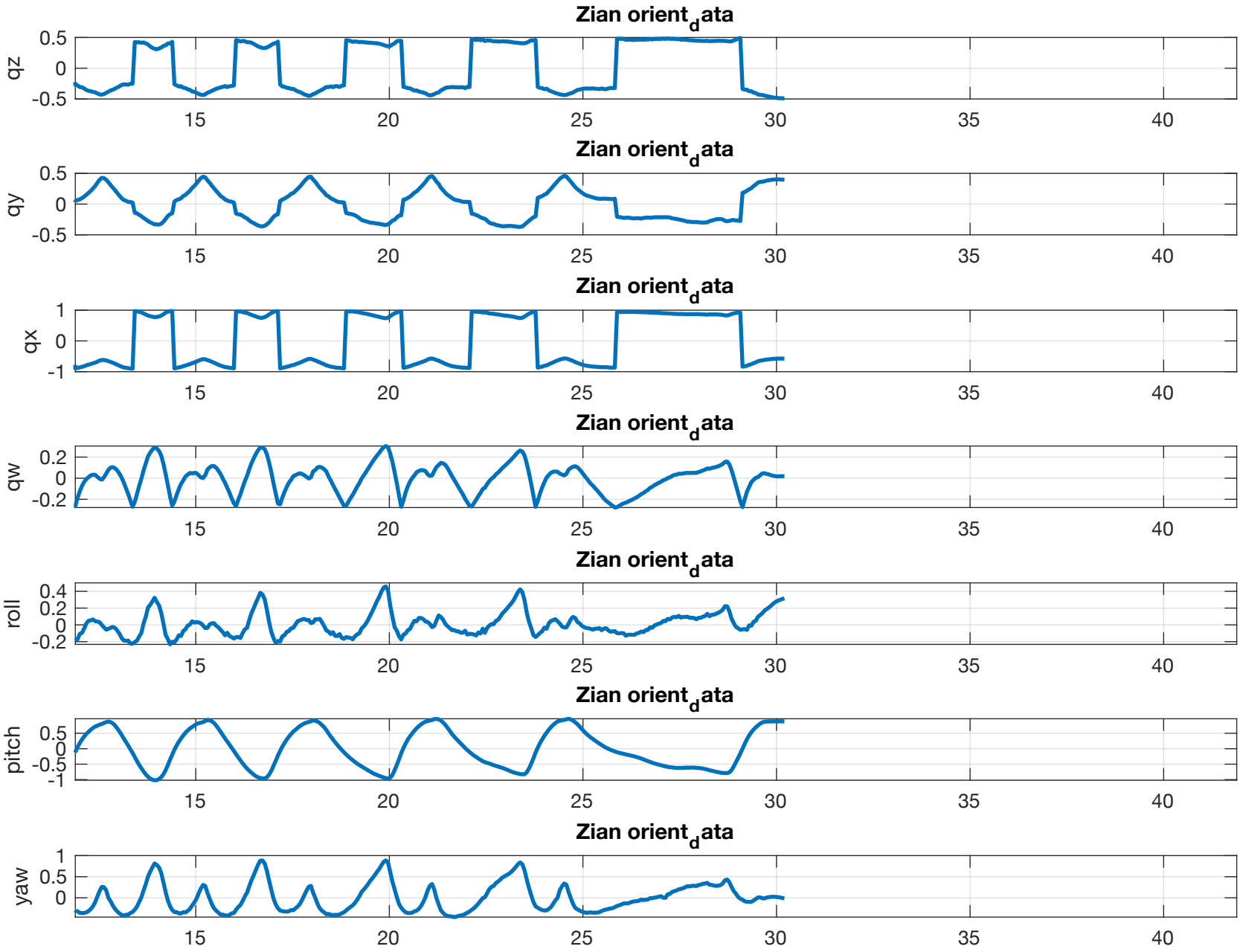

Zian Zero Cross gyro_data
Z
2
1
0
-1
-2
15
20
25
30
35
40
Zian Zero Cross gyro_data
Y
4
2
0
-2
-4
15
20
25
30
35
40
Zian Zero Cross gyro_data
X
6
4
2
0
-2
-4
15
20
25
30
35
40

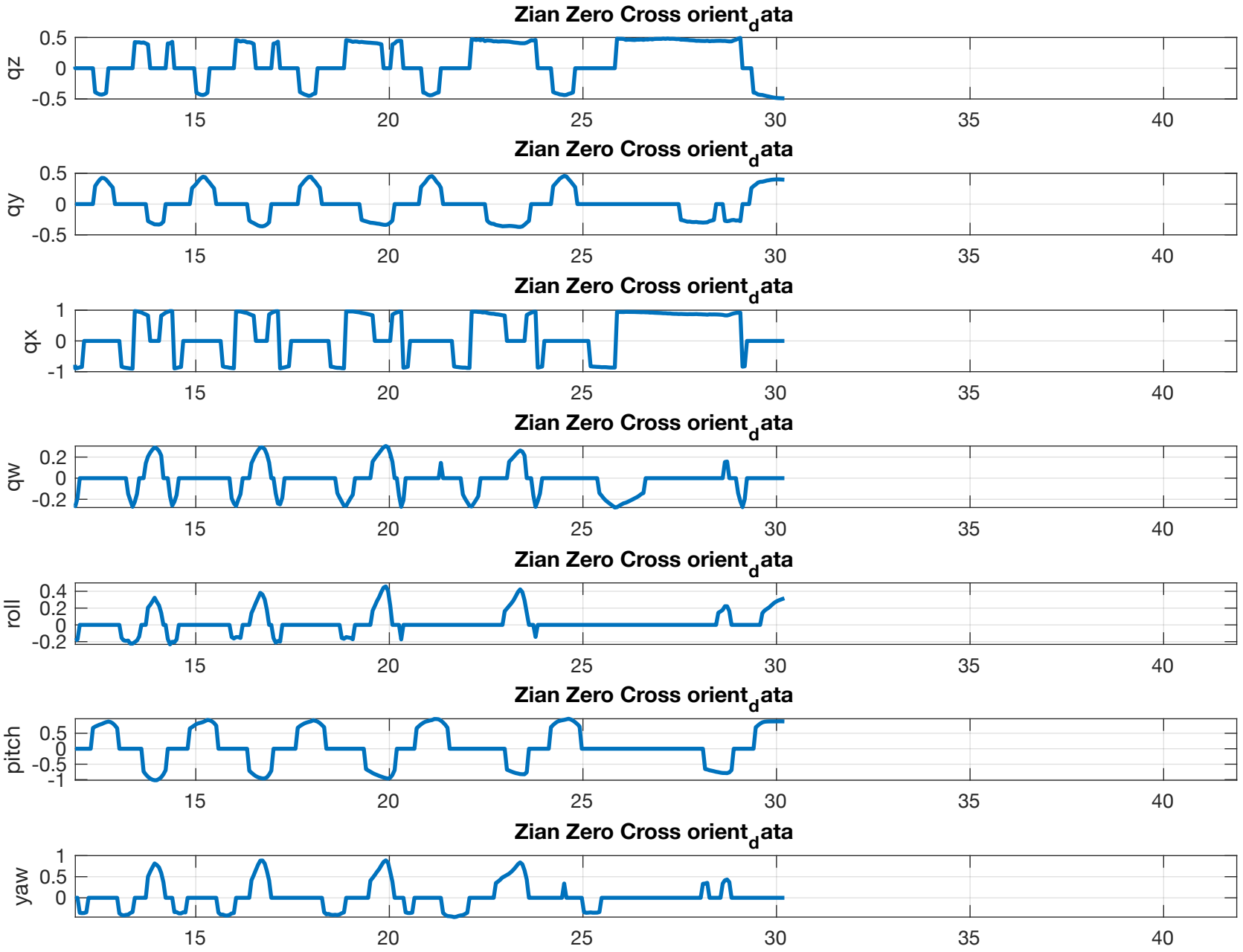
| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -108 | -67 | -16 | -3 | "gyro_data" |
| 'Y' | -131 | -107 | -27 | -22.5000 | "gyro_data" |
| 'X' | -87 | -36 | -10 | 0 | "gyro_data" |


Zian grav_data
Z
4
2
0
-2
-4
15
20
25
30
35
40
Zian grav_data
Y
10
5
0
-5
-10
15
20
25
30
35
40
Zian grav_data
X
2
1
0
-1
-2
-3
15
20
25
30
35
40


Zian Zero Cross grav_data
Z
4
2
0
-2
-4
15
20
25
30
35
40
Zian Zero Cross grav_data
Y
10
5
0
-5
-10
15
20
25
30
35
40
Zian Zero Cross grav_data
X
2
1
0
-1
-2
-3
15
20
25
30
35
40

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -31 | -15 | -2 | -6.7500 | "grav_data" |
| 'Y' | -3 | -2 | 5 | -0.2500 | "grav_data" |
| 'X' | -52 | -48 | -9 | 1.2500 | "grav_data" |


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


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

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'qz' | -57 | -37 | -9 | -3.2500 | "orient_data" |
| 'qy' | -18 | -5 | 4 | -0.7500 | "orient_data" |
| 'qx' | -31 | -20 | -4 | -7.5000 | "orient_data" |
| 'qw' | -23 | -23 | -2 | -4.5000 | "orient_data" |
| 'roll' | -53 | -25 | -7 | -3.2500 | "orient_data" |
| 'pitch' | -3 | -1 | 6 | -0.2500 | "orient_data" |
| 'yaw' | -19 | -13 | 0 | -2.5000 | "orient_data" |

| Sensor | Sensor Axis | Method | Error |
|---|---|---|---|
| 'accel_data' | "Z" | 'zero_cross' | 33.5 |
| 'bar_data' | "Relative Altitude" | 'double_findpeaks' | 0 |
| 'gyro_data' | "X" | 'zero_cross' | 0 |
| 'grav_data' | "Y" | 'zero_cross' | 0.25 |
| 'orient_data' | "yaw" | 'double_findpeaks' | 0 |