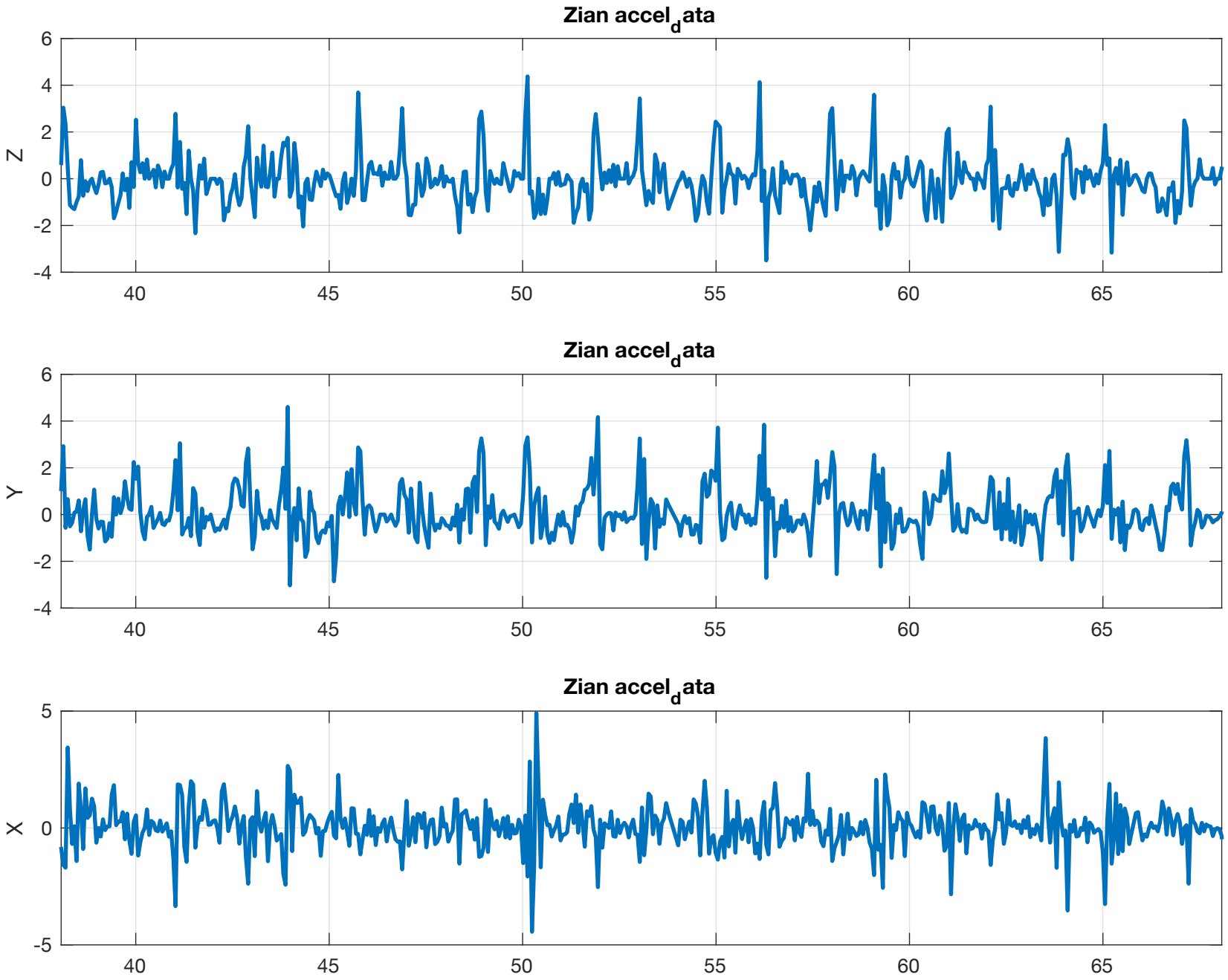
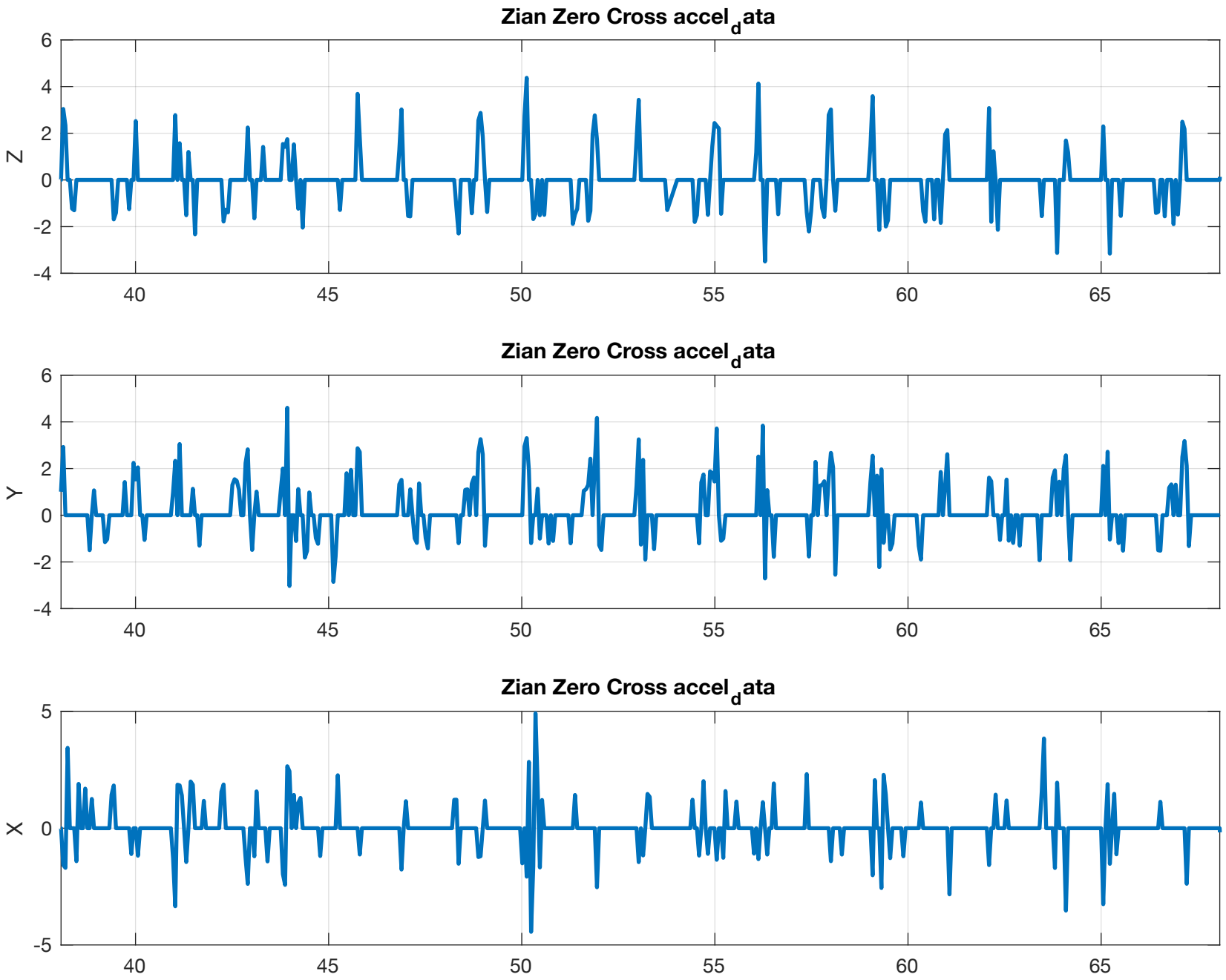
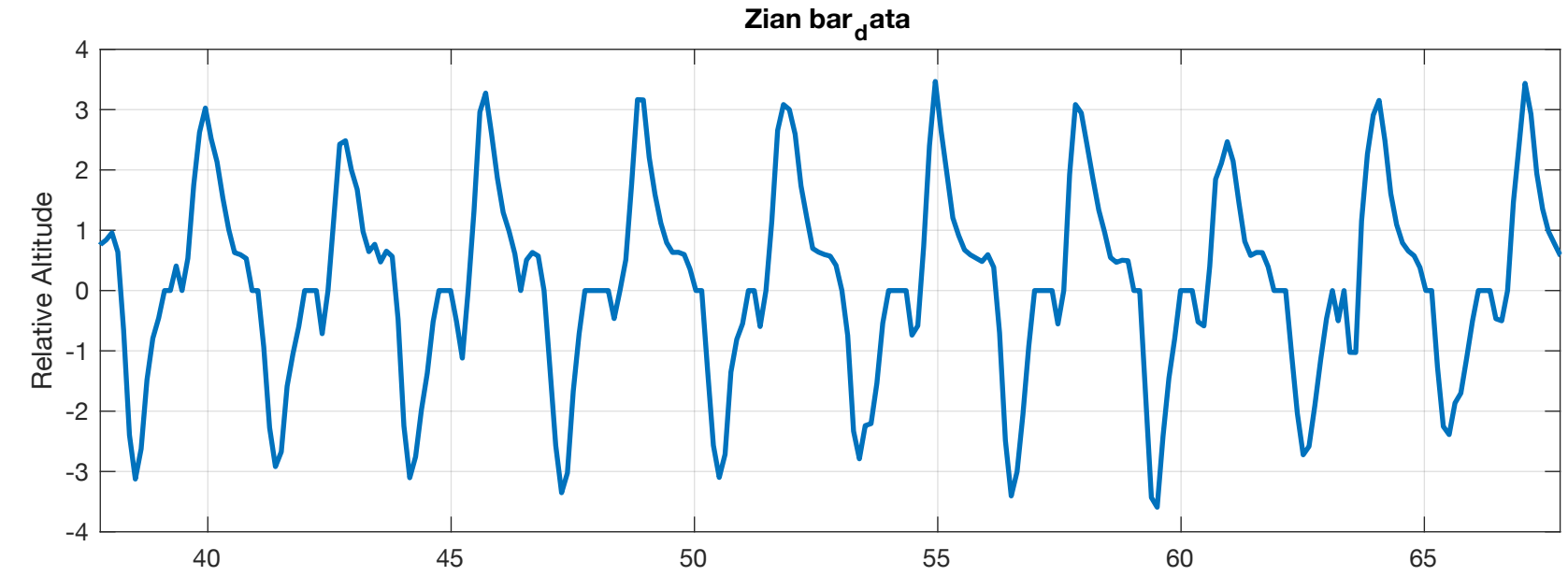
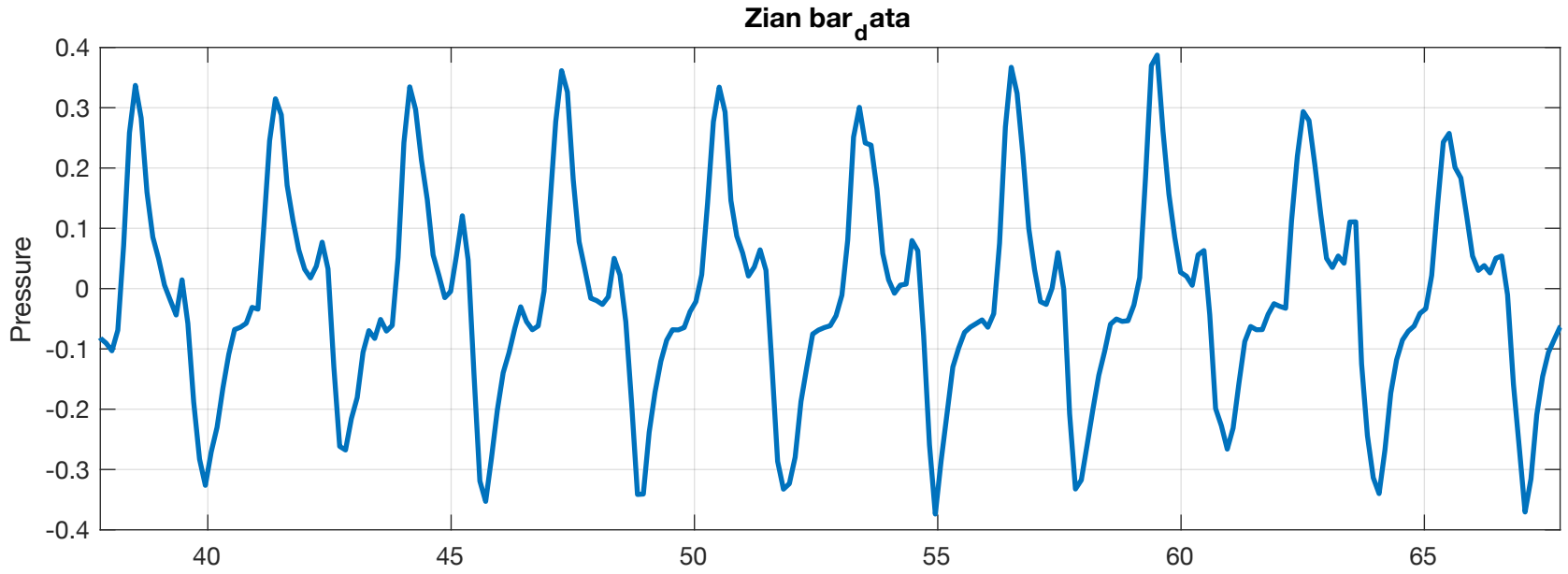
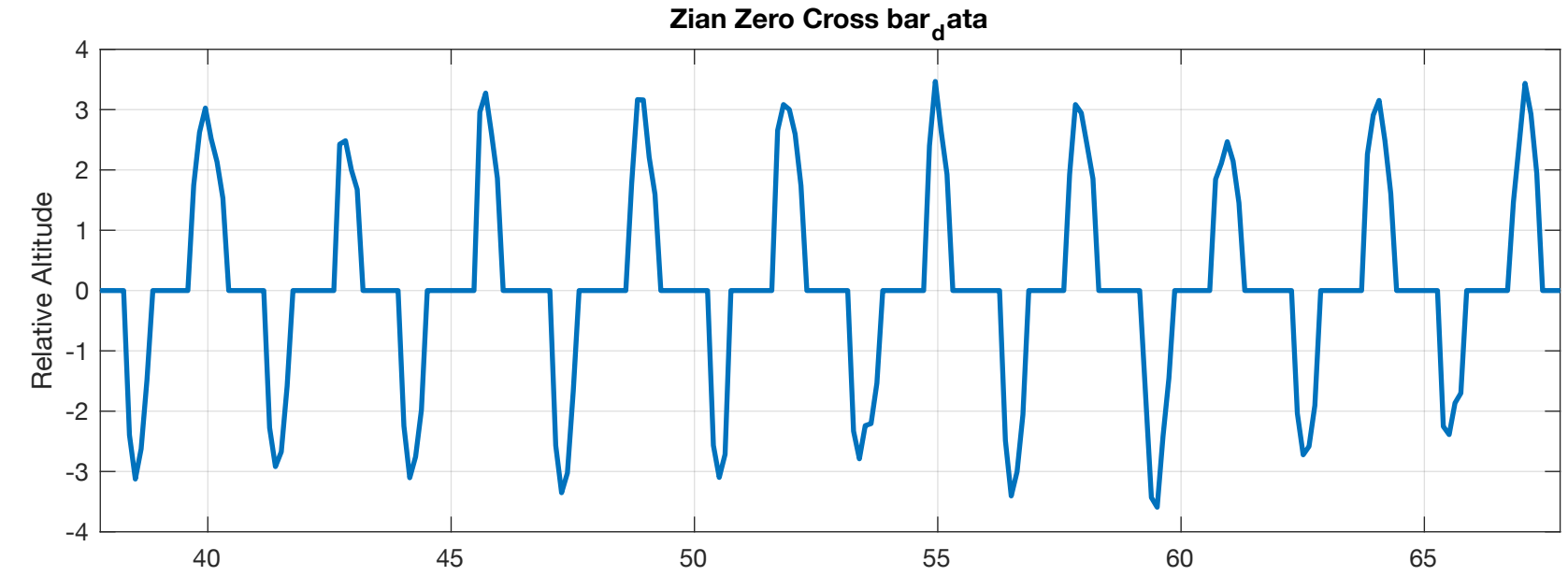

Zian accel_data
Z
6
4
2
0
-2
-4
40
45
50
55
60
65
Zian accel_data
Y
6
4
2
0
-2
-4
40
45
50
55
60
65
Zian accel_data
X
5
0
-5
40
45
50
55
60
65

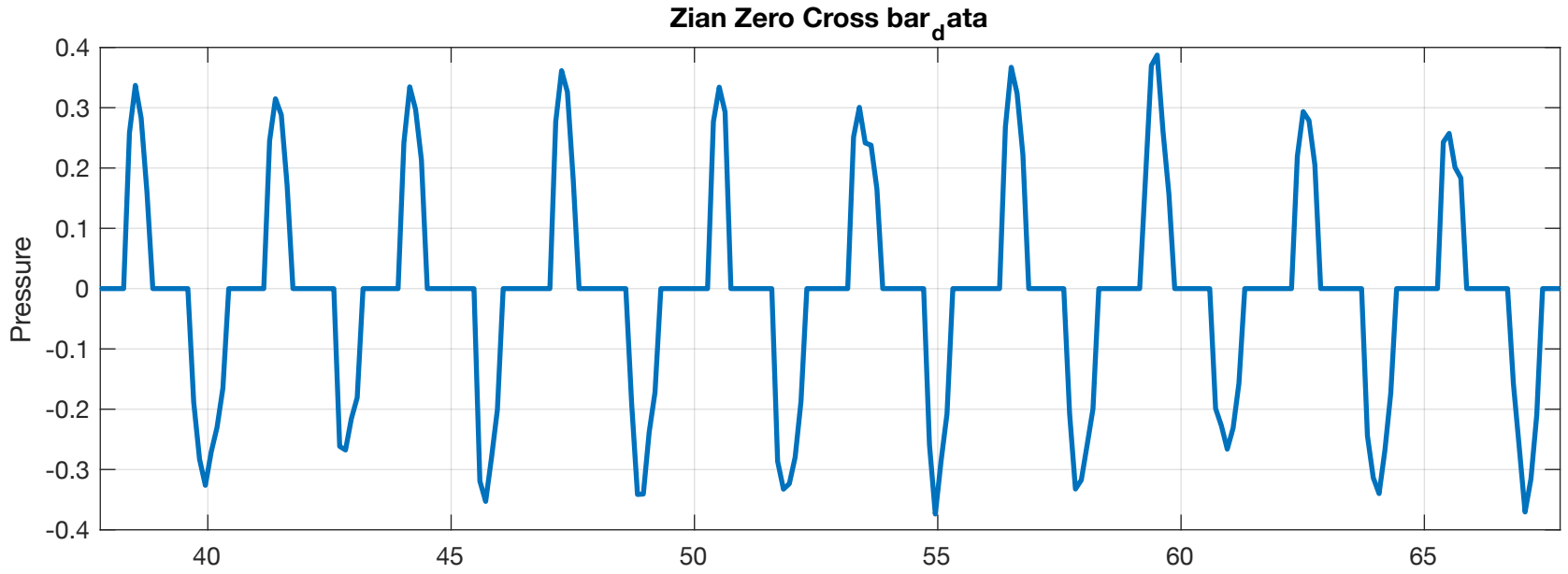

Zian Zero Cross accel_data
Z
6
4
2
0
-2
-4
40
45
50
55
60
65
Zian Zero Cross accel_data
Y
6
4
2
0
-2
-4
40
45
50
55
60
65
Zian Zero Cross accel_data
X
5
0
-5
40
45
50
55
60
65

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -429.000 | -326.000 | -119.000 | -58.500 | "accel_data" |
| 'Y' | -447.000 | -289.000 | -93.000 | -88.500 | "accel_data" |
| 'X' | -465.000 | -389.000 | -123.000 | -85.500 | "accel_data" |

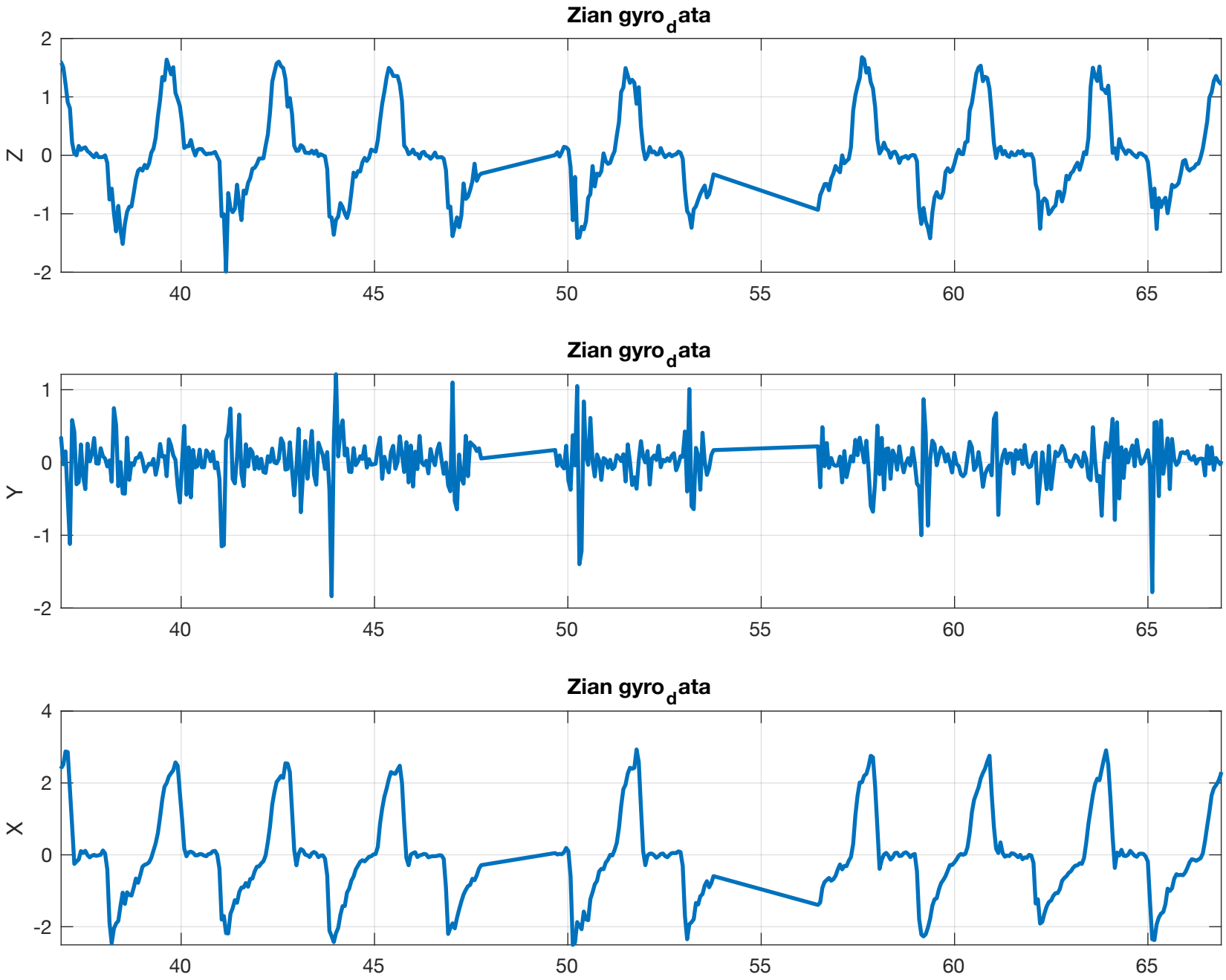

Zian bar_data
Relative Altitude
4
3
2
1
0
-1
-2
-3
-4
40
45
50
55
60
65

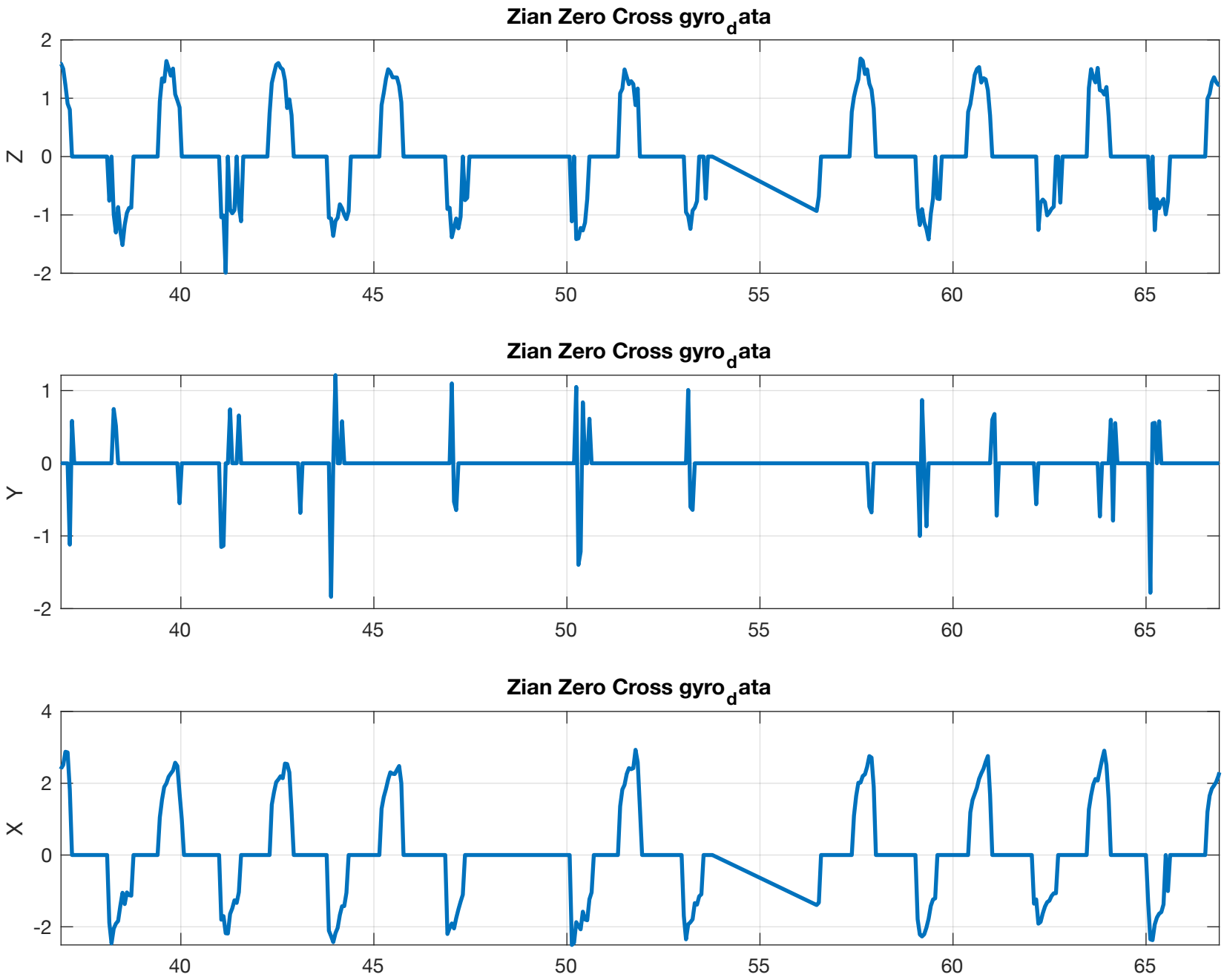

Zian bar_data
Pressure
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
40
45
50
55
60
65


Zian Zero Cross bar_data
Relative Altitude
4
3
2
1
0
-1
-2
-3
-4
40
45
50
55
60
65

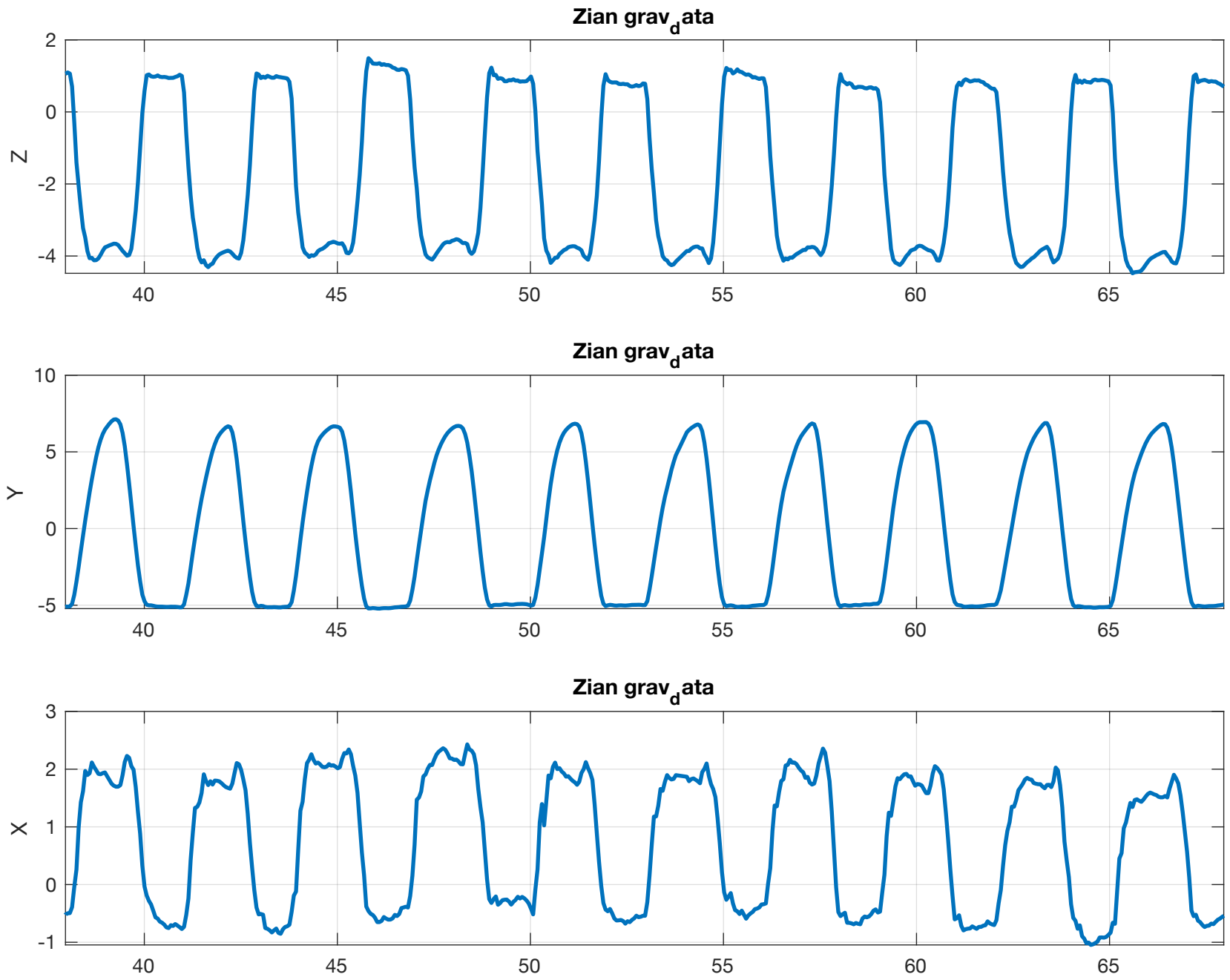

Zian Zero Cross bar_data
Pressure
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
40
45
50
55
60
65

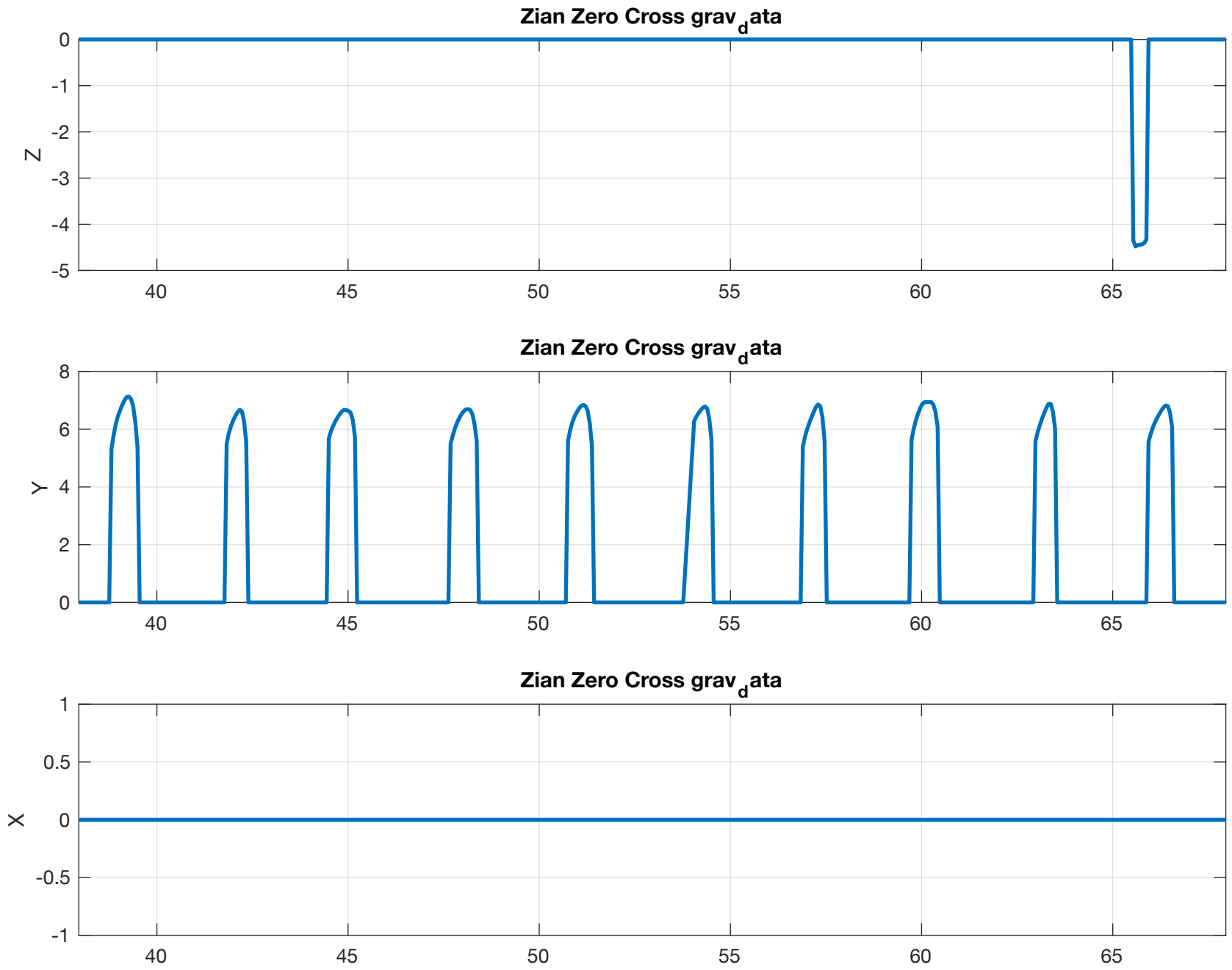
| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| "Relative Altitude" | -49.000 | -25.000 | -2.000 | 0.000 | "bar_data" |
| "Pressure" | -79.000 | -46.000 | -6.000 | 0.000 | "bar_data" |


Zian gyro_data
Z
2
1
0
-1
-2
40
45
50
55
60
65
Zian gyro_data
Y
1
0
-1
-2
40
45
50
55
60
65
Zian gyro_data
X
4
2
0
-2
40
45
50
55
60
65

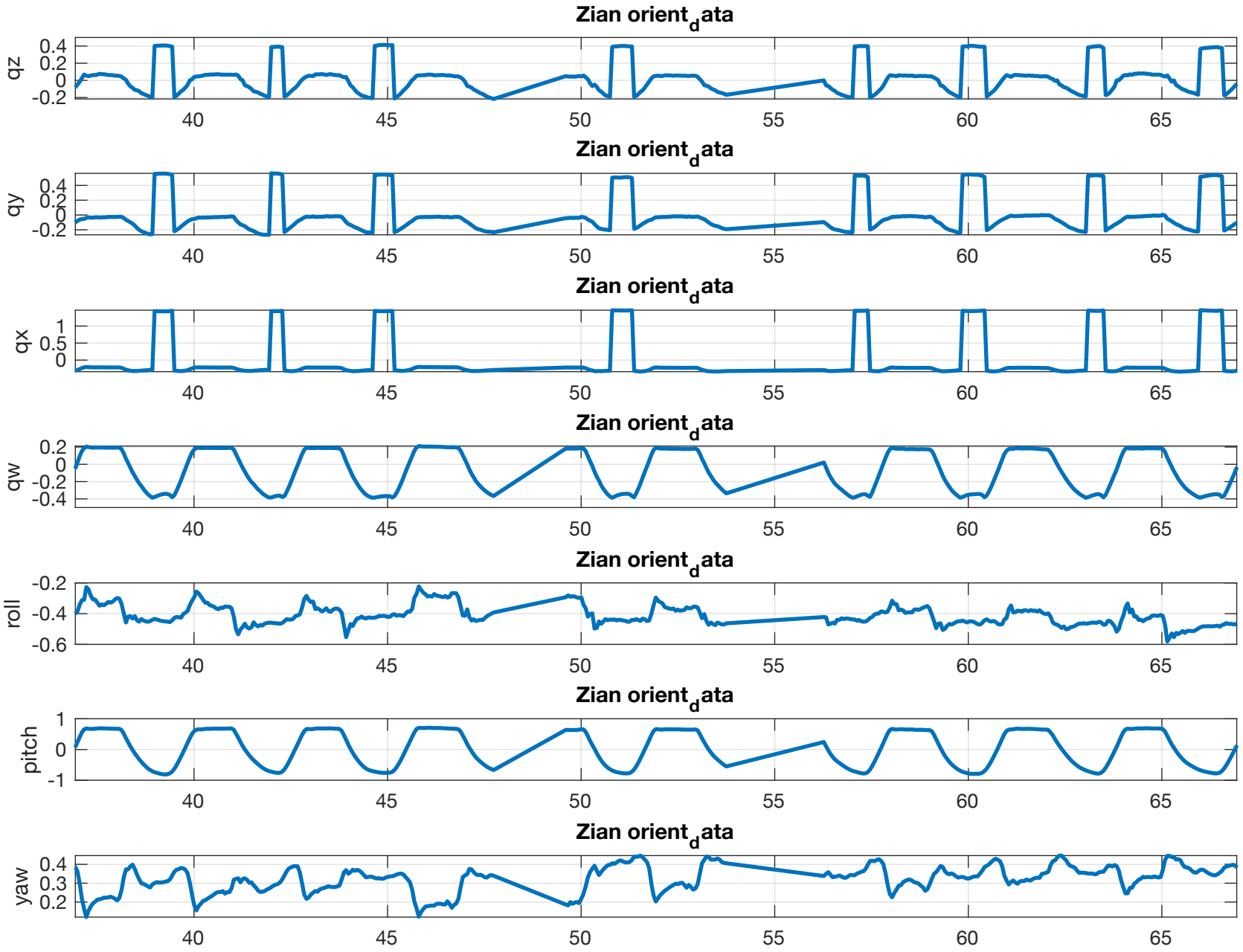

Zian Zero Cross gyro_data
Z
2
1
0
-1
-2
40
45
50
55
60
65
Zian Zero Cross gyro_data
Y
1
0
-1
-2
40
45
50
55
60
65
Zian Zero Cross gyro_data
X
4
2
0
-2
40
45
50
55
60
65

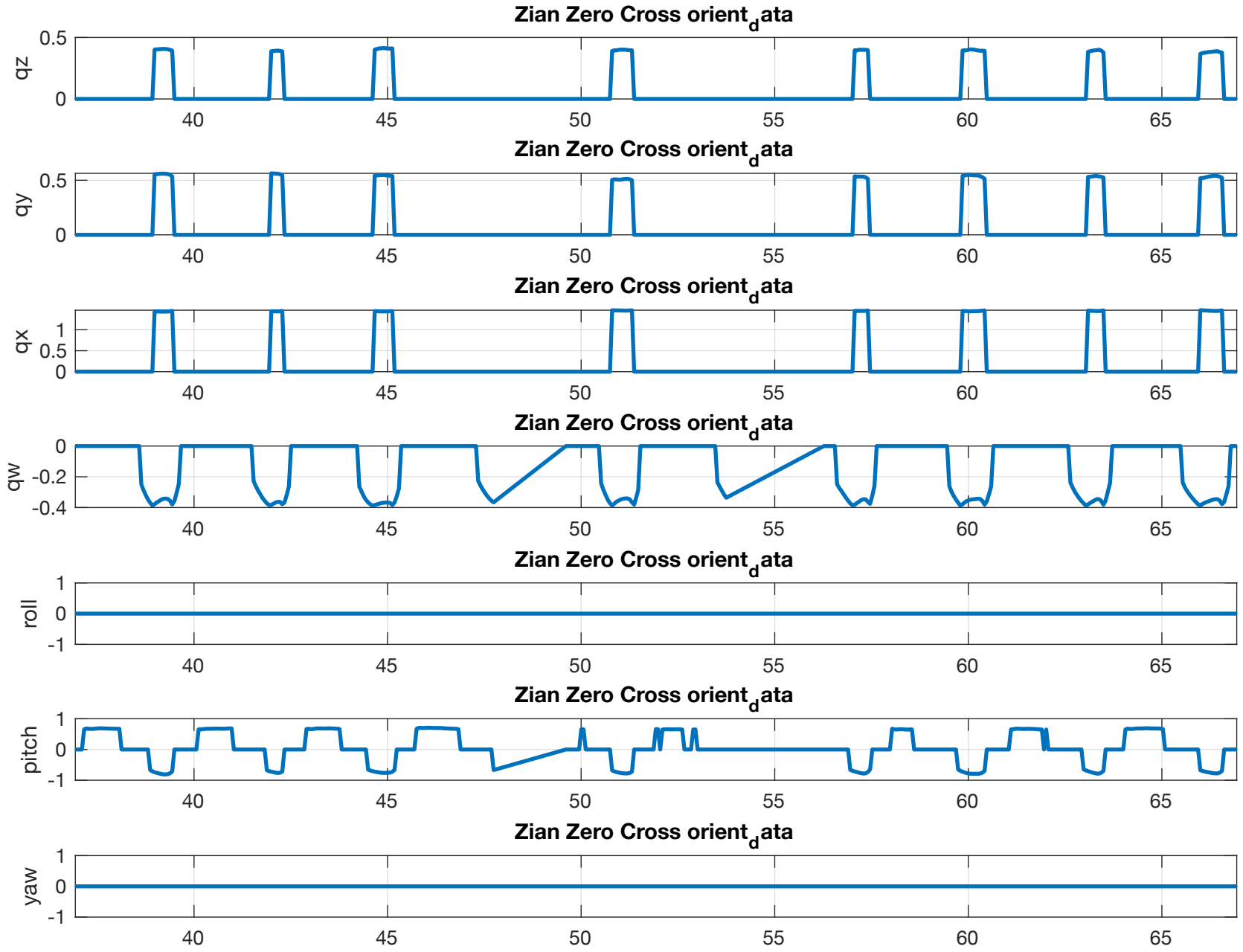
| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -339.000 | -212.000 | -47.000 | -9.500 | "gyro_data" |
| 'Y' | -451.000 | -424.000 | -115.000 | -30.000 | "gyro_data" |
| 'X' | -247.000 | -142.000 | -42.000 | 0.000 | "gyro_data" |


Zian grav_data
Z
2
0
-2
-4
40
45
50
55
60
65
Zian grav_data
Y
10
5
0
-5
40
45
50
55
60
65
Zian grav_data
X
3
2
1
0
-1
40
45
50
55
60
65


Zian Zero Cross grav_data
Z
0
-1
-2
-3
-4
-5
40
45
50
55
60
65
Zian Zero Cross grav_data
Y
8
6
4
2
0
40
45
50
55
60
65
Zian Zero Cross grav_data
X
1
0.5
0
-0.5
-1
40
45
50
55
60
65

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -173.000 | -94.000 | -19.000 | 24.000 | "grav_data" |
| 'Y' | -97.000 | -1.000 | 0.000 | 12.500 | "grav_data" |
| 'X' | -232.000 | -101.000 | -27.000 | 24.500 | "grav_data" |


Zian orientdata
qz
0.4
0.2
0
-0.2
40
45
50
55
60
65
Zian orientdata
qy
0.4
0.2
0
-0.2
40
45
50
55
60
65
Zian orientdata
qx
1
0.5
0
40
45
50
55
60
65
Zian orientdata
qw
0.2
0
-0.2
-0.4
40
45
50
55
60
65
Zian orientdata
roll
-0.2
-0.4
-0.6
40
45
50
55
60
65
Zian orientdata
pitch
1
0
-1
40
45
50
55
60
65
Zian orientdata
yaw
0.4
0.3
0.2
40
45
50
55
60
65


Zian Zero Cross orientdata
qz
0.5
0
40
45
50
55
60
65
Zian Zero Cross orientdata
qy
0.5
0
40
45
50
55
60
65
Zian Zero Cross orientdata
qx
1
0.5
0
40
45
50
55
60
65
Zian Zero Cross orientdata
qw
0
-0.2
-0.4
40
45
50
55
60
65
Zian Zero Cross orientdata
roll
1
0
-1
40
45
50
55
60
65
Zian Zero Cross orientdata
pitch
1
0
-1
40
45
50
55
60
65
Zian Zero Cross orientdata
yaw
1
0
-1
40
45
50
55
60
65

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'qz' | -184.000 | -177.000 | -35.000 | 13.500 | "orient_data" |
| 'qy' | -190.000 | -80.000 | -16.000 | 13.500 | "orient_data" |
| 'qx' | -160.000 | -25.000 | -2.000 | 13.500 | "orient_data" |
| 'qw' | -135.000 | -84.000 | -14.000 | 12.500 | "orient_data" |
| 'roll' | -315.000 | 20.000 | 23.000 | 23.000 | "orient_data" |
| 'pitch' | -96.000 | -95.000 | -5.000 | -2.000 | "orient_data" |
| 'yaw' | -195.000 | -195.000 | -38.000 | 24.500 | "orient_data" |

| Sensor | Sensor Axis | Method | Error |
|---|---|---|---|
| 'accel_data' | "Z" | 'zero_cross' | 58.500 |
| 'bar_data' | "Relative Altitude" | 'zero_cross' | 0.000 |
| 'gyro_data' | "X" | 'zero_cross' | 0.000 |
| 'grav_data' | "Y" | 'double_findpeaks' | 0.000 |
| 'orient_data' | "qx" | 'double_findpeaks' | 2.000 |