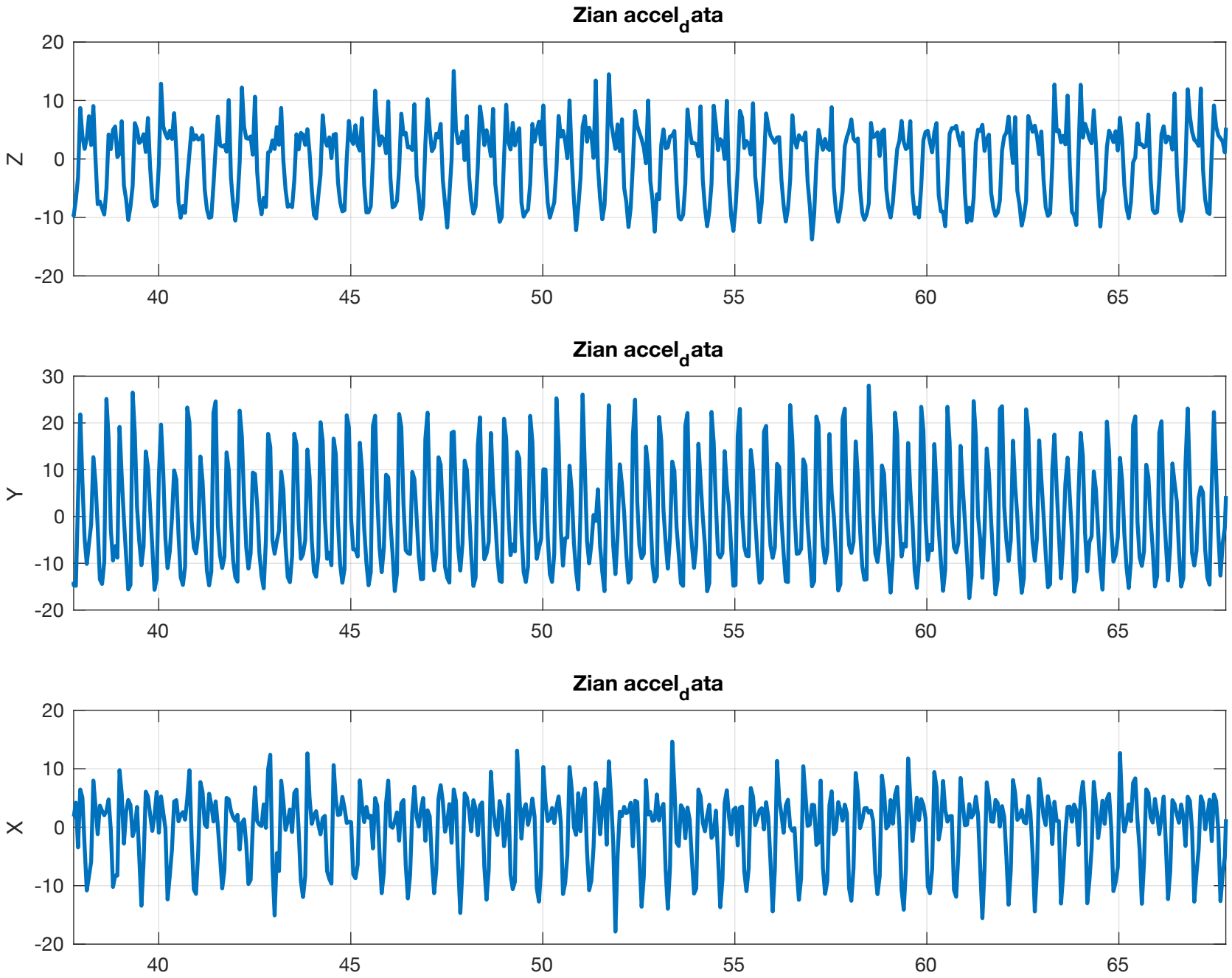
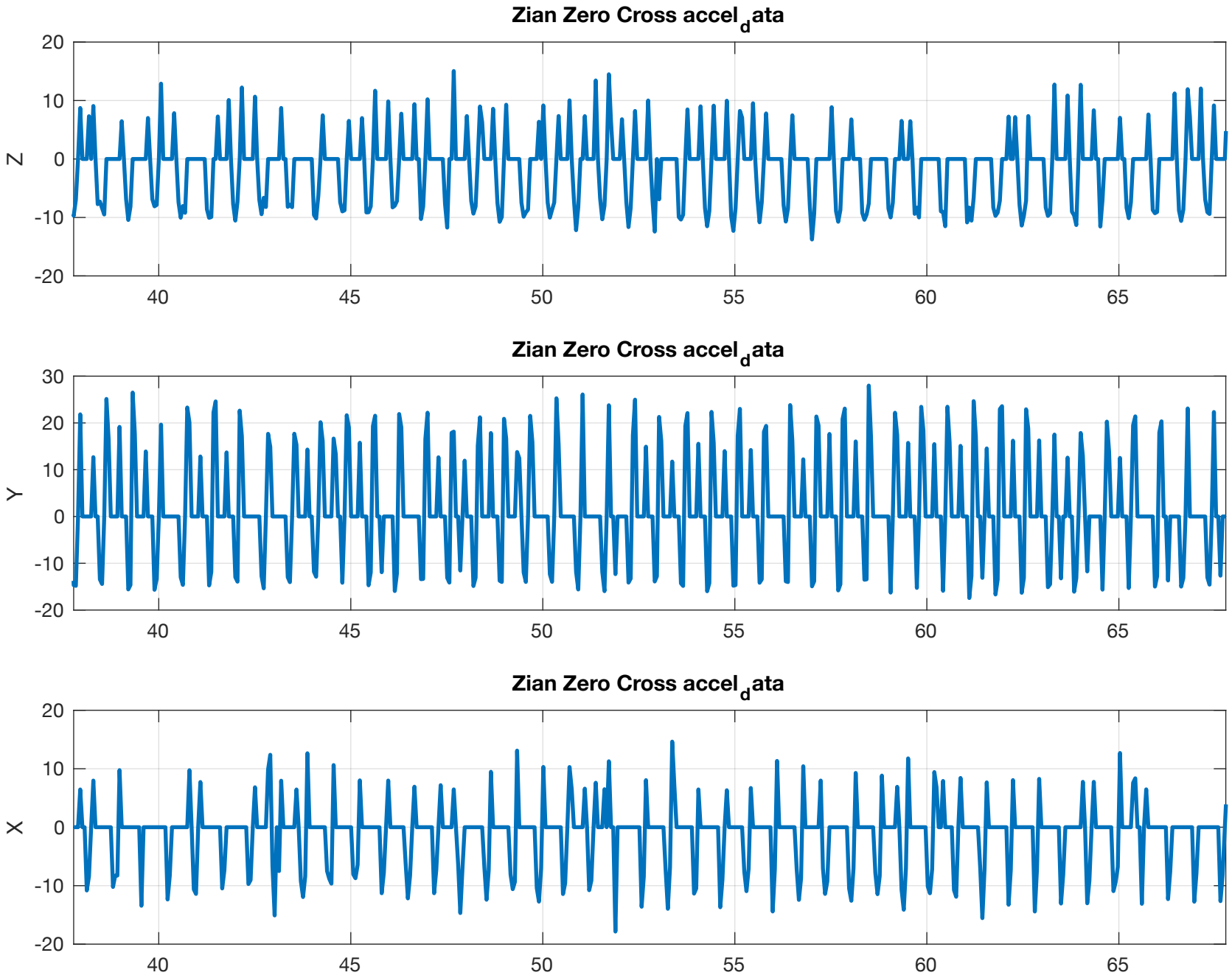
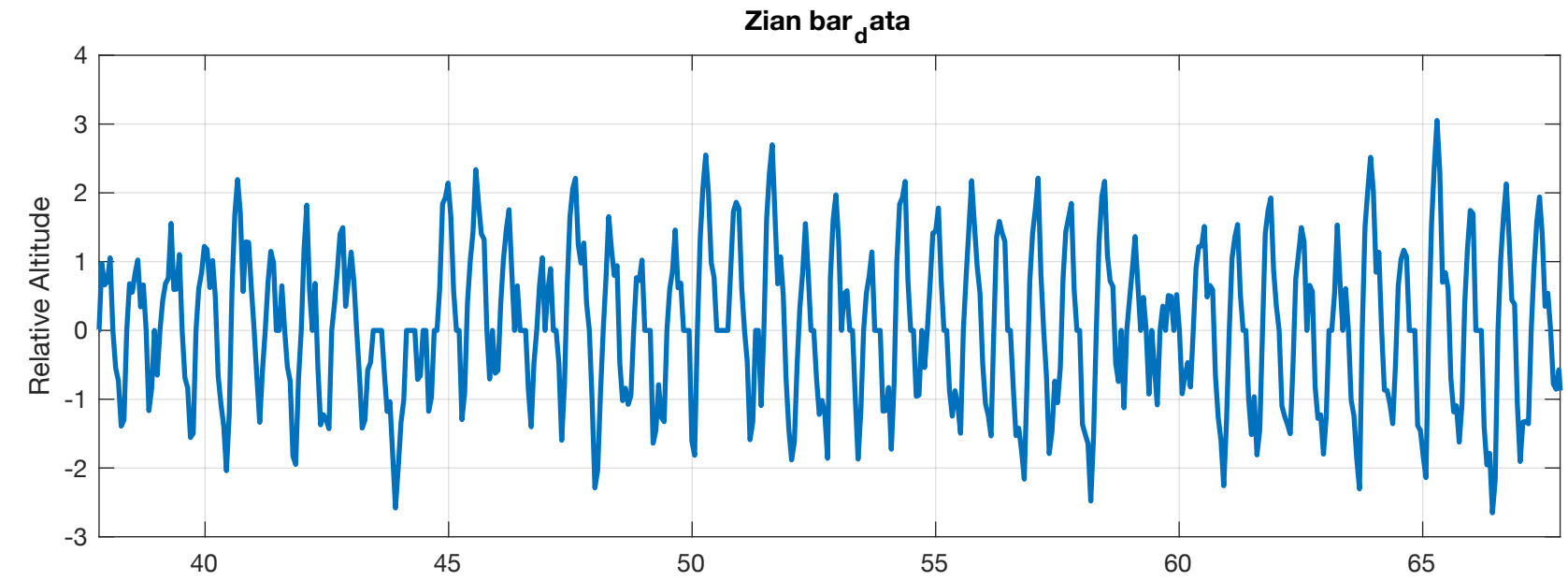
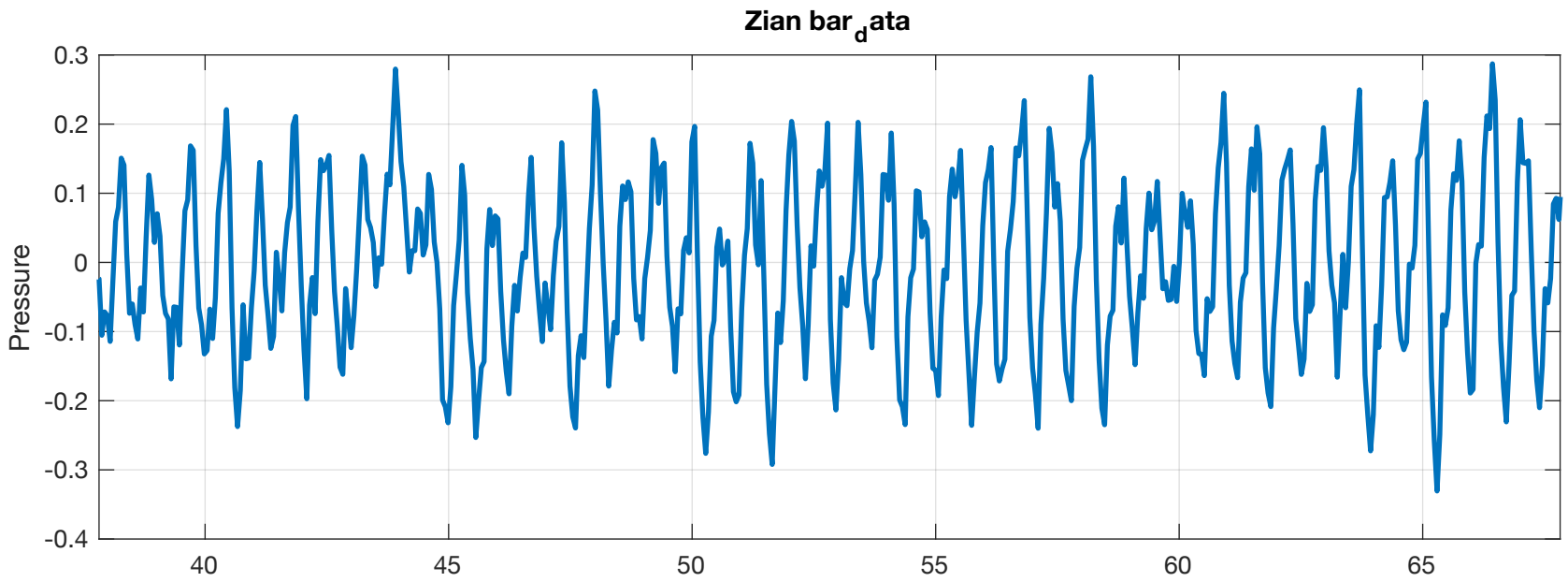
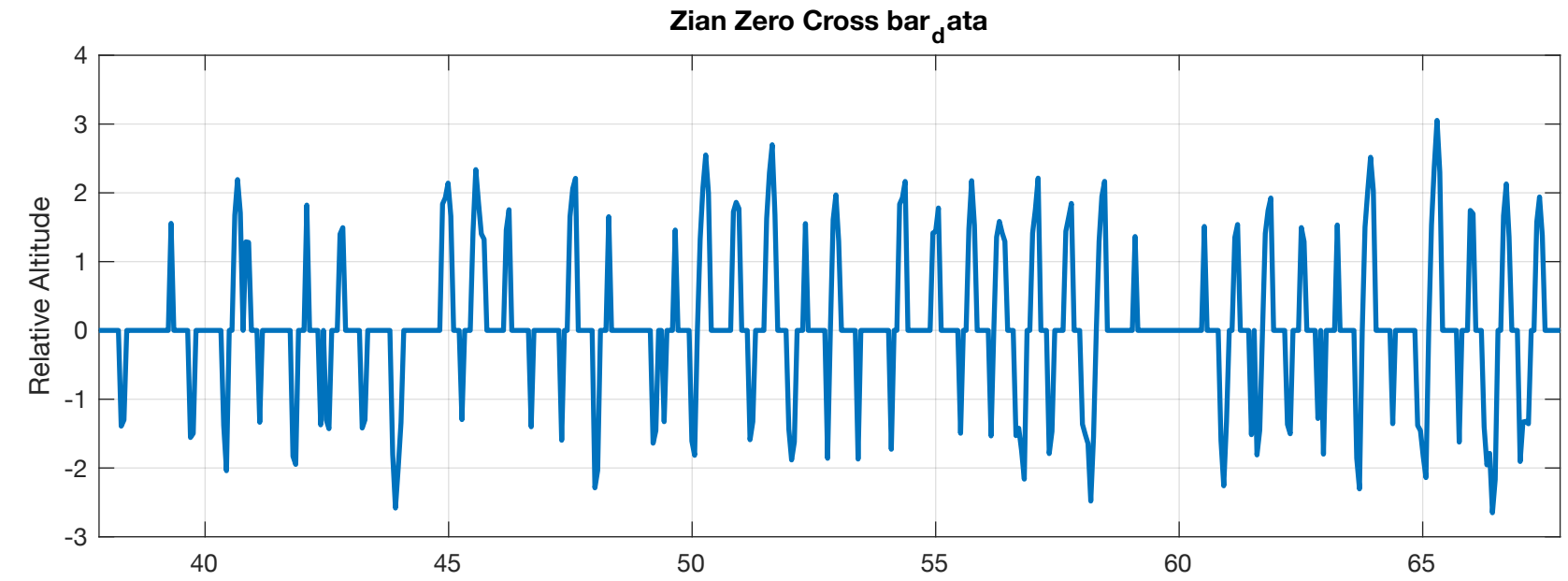

Zian accel_data
Z
20
10
0
-10
-20
40
45
50
55
60
65
Zian accel_data
Y
30
20
10
0
-10
-20
40
45
50
55
60
65
Zian accel_data
X
20
10
0
-10
-20
40
45
50
55
60
65

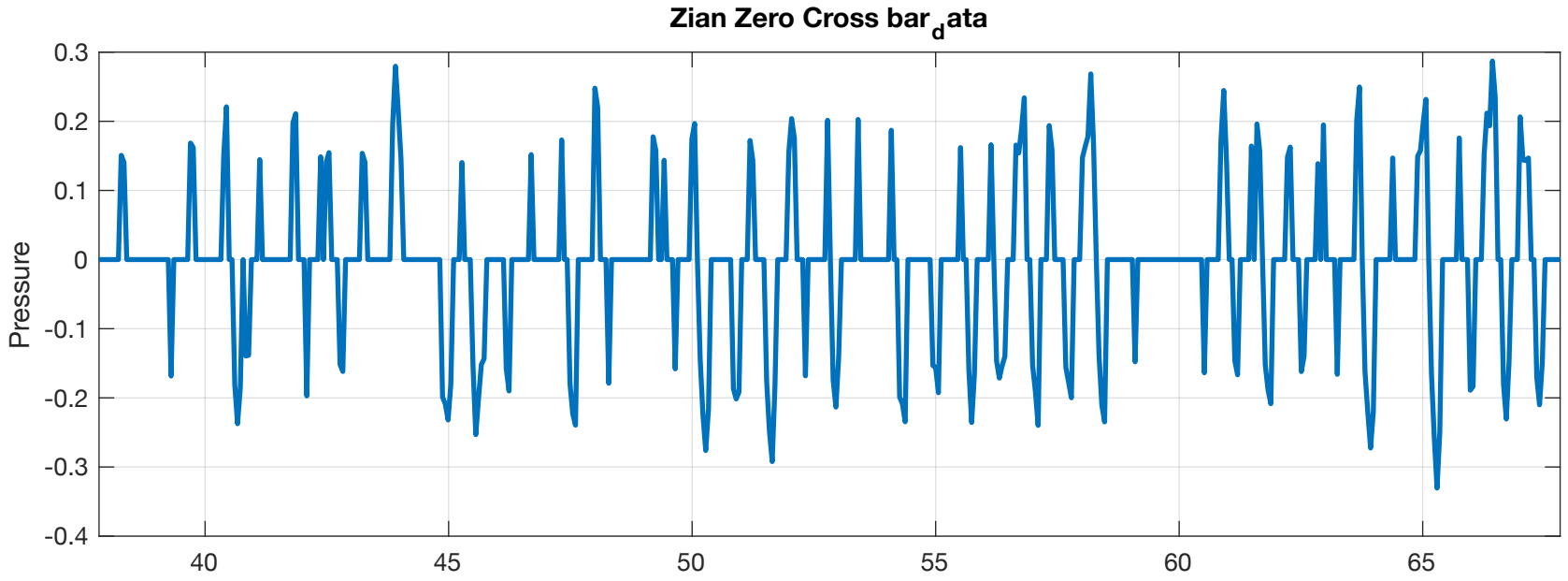

Zian Zero Cross accel_data
Z
20
10
0
-10
-20
40
45
50
55
60
65
Zian Zero Cross accel_data
Y
30
20
10
0
-10
-20
40
45
50
55
60
65
Zian Zero Cross accel_data
X
20
10
0
-10
-20
40
45
50
55
60
65

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -146.000 | -134.000 | 151.000 | 115.000 | "accel_data" |
| 'Y' | -33.000 | -5.000 | 150.000 | 90.500 | "accel_data" |
| 'X' | -163.000 | -160.000 | 149.000 | 129.500 | "accel_data" |

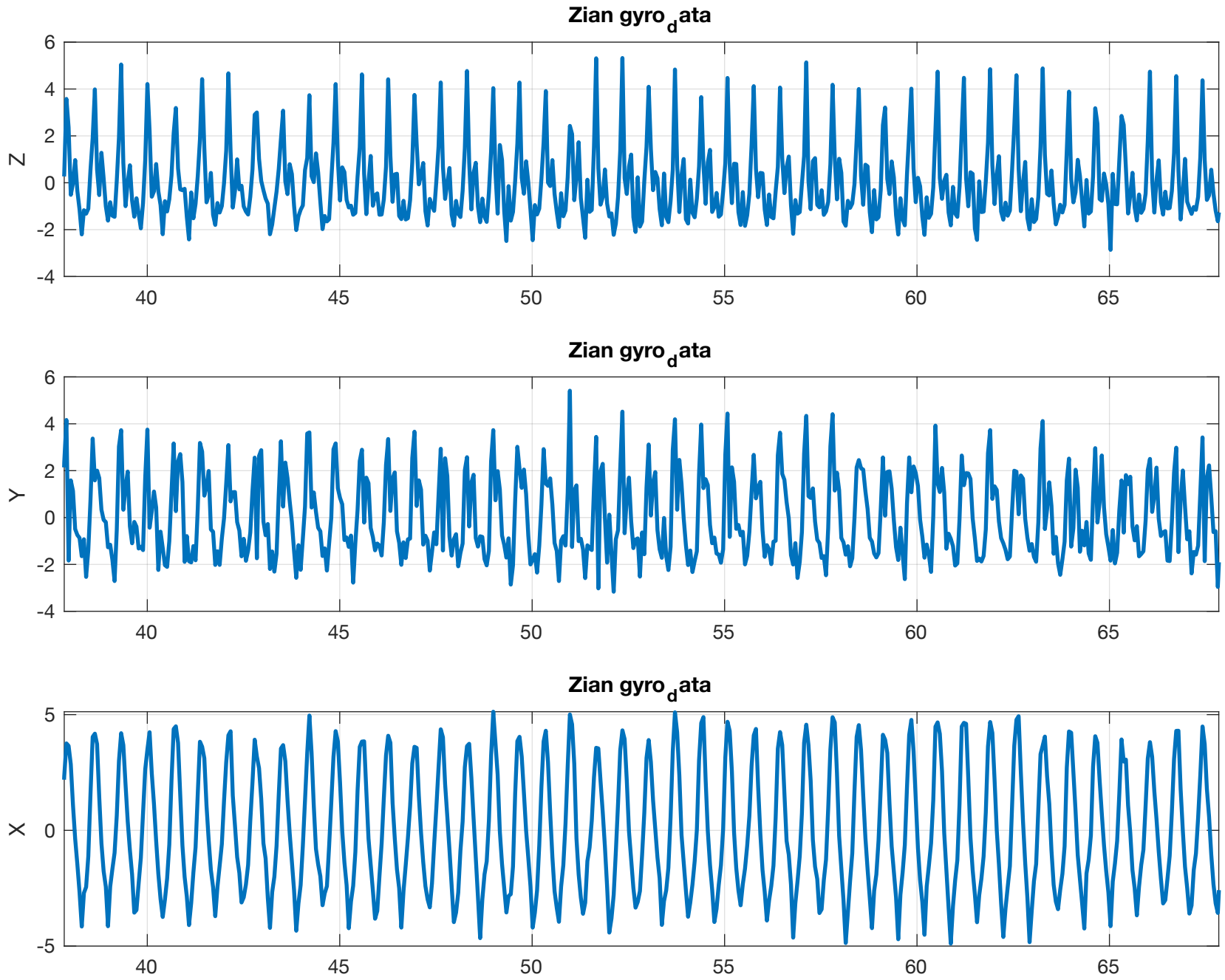

Zian bar_data
Relative Altitude
4
3
2
1
0
-1
-2
-3
40
45
50
55
60
65

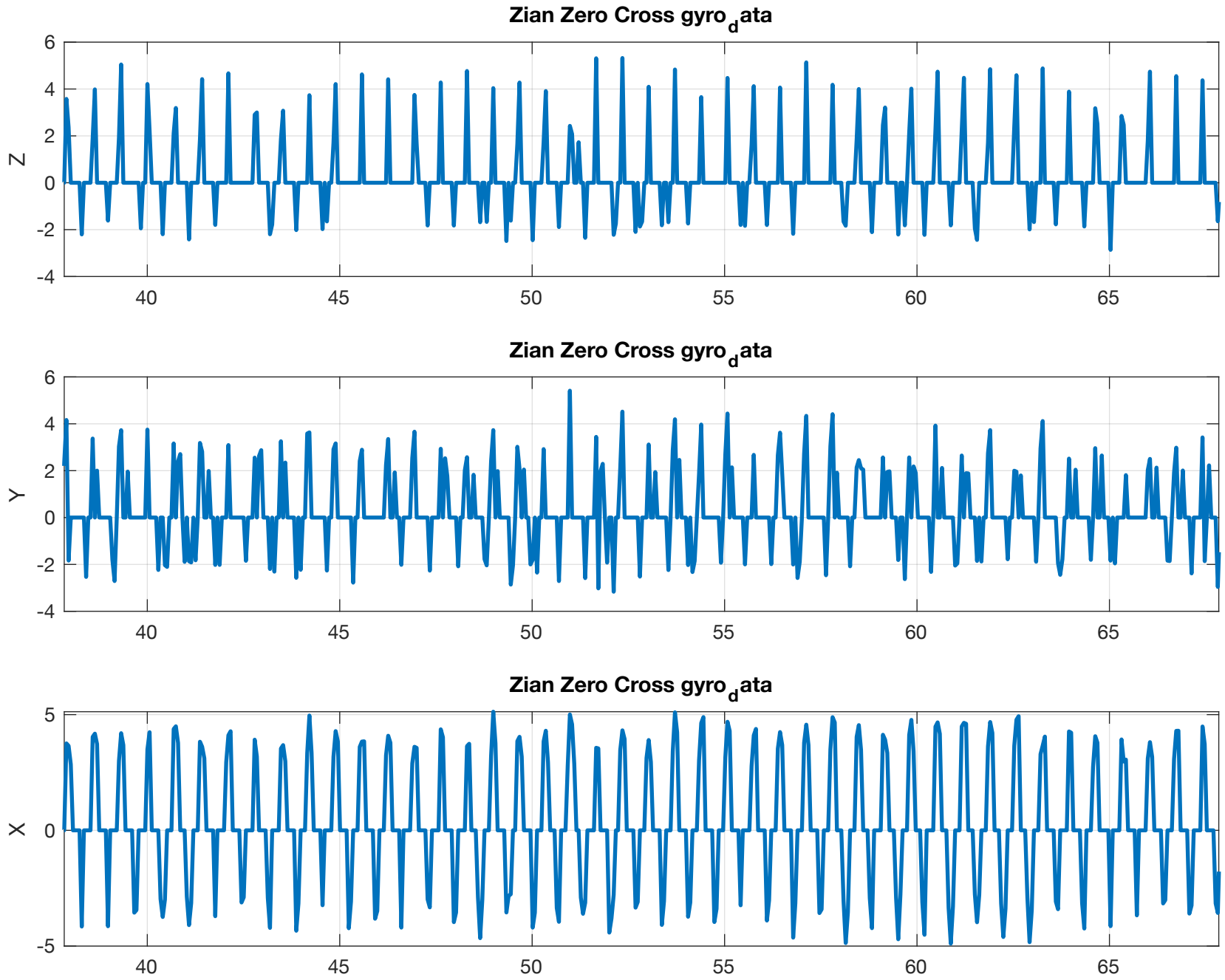

Zian bar_data
Pressure
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
40
45
50
55
60
65


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

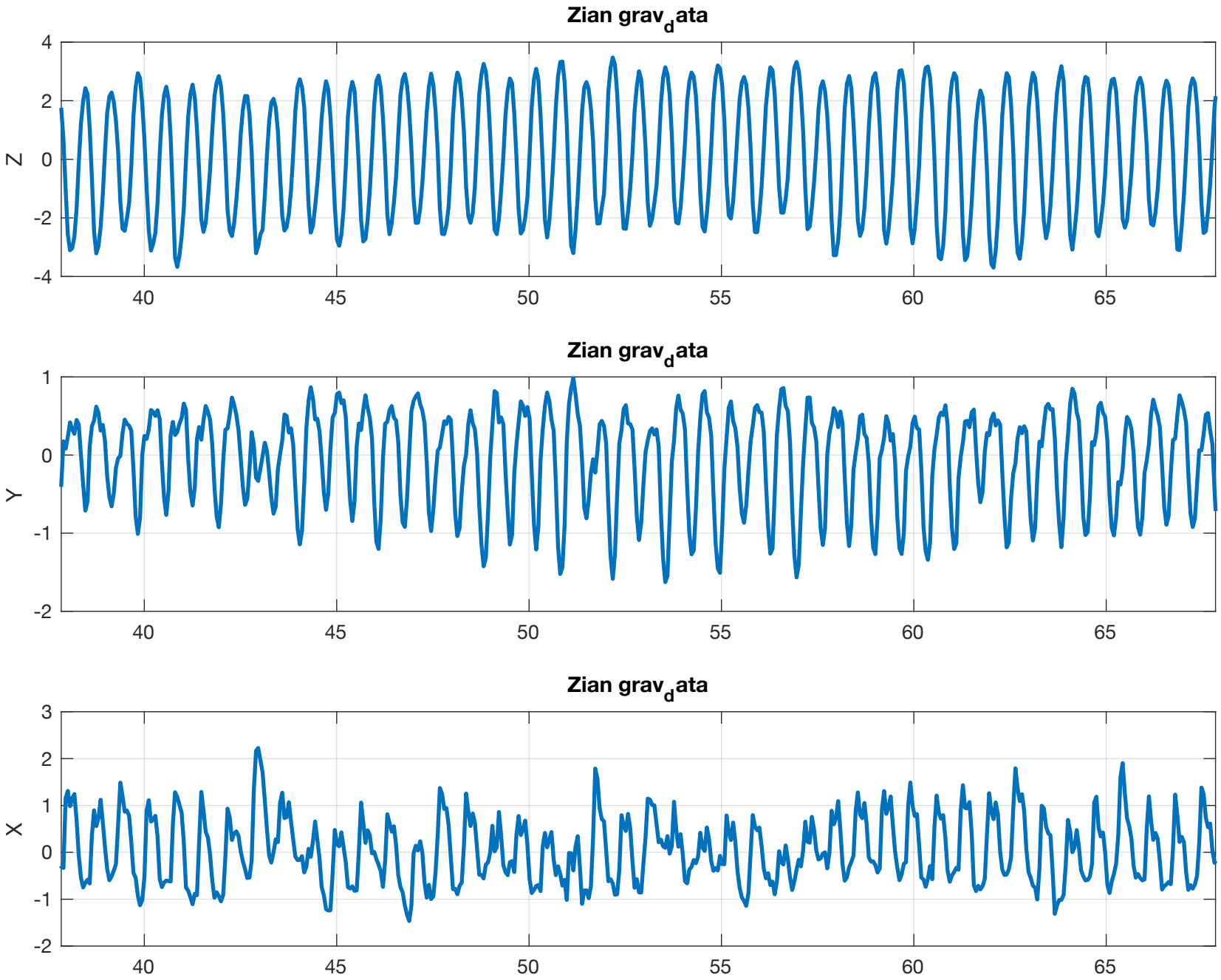

Zian Zero Cross bar_data
Pressure
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
40
45
50
55
60
65

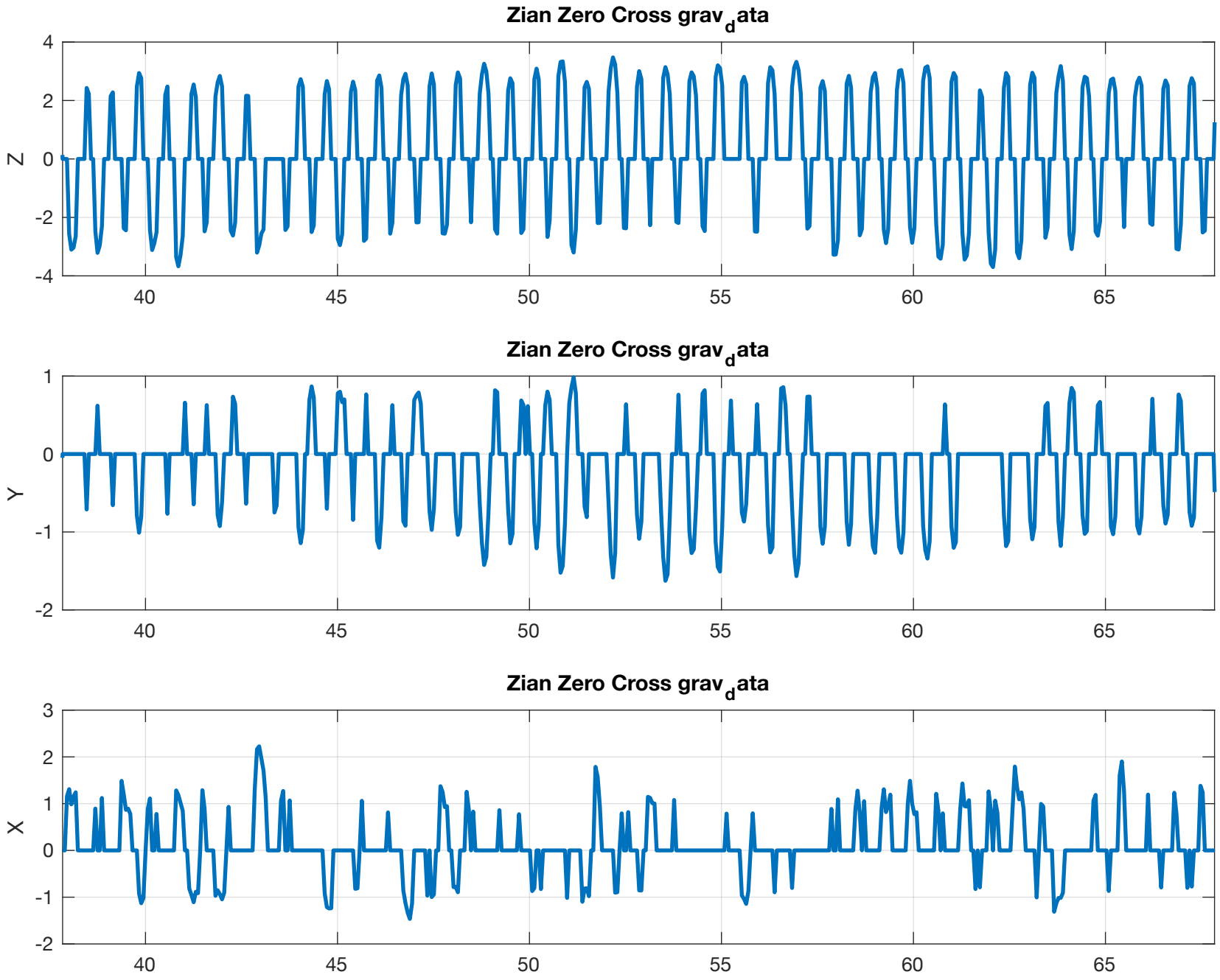
| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| "Relative Altitude" | -14.000 | 73.000 | 176.000 | 165.500 | "bar_data" |
| "Pressure" | -42.000 | 40.000 | 178.000 | 165.500 | "bar_data" |


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

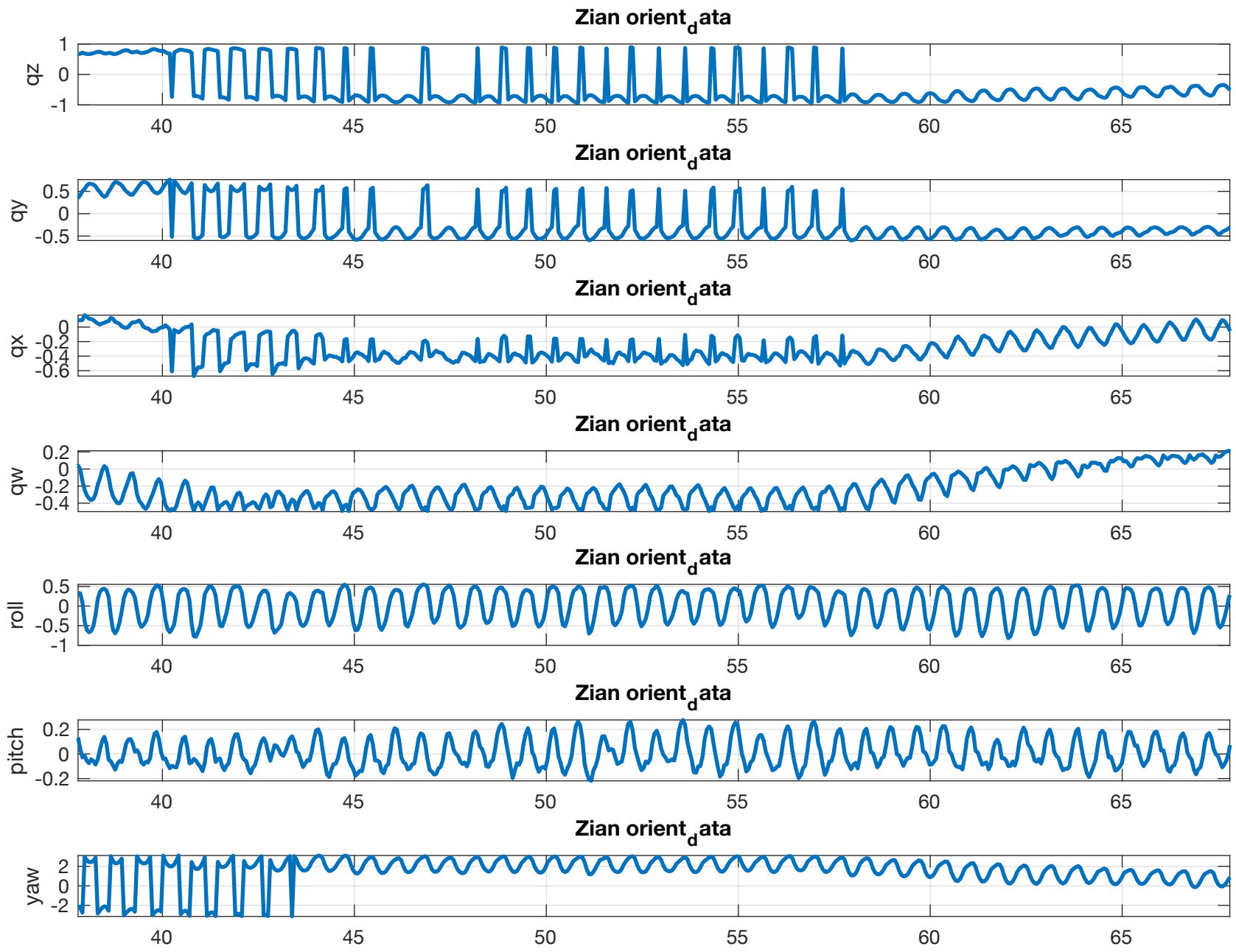

Zian Zero Cross gyro_data
Z
6
4
2
0
-2
-4
40
45
50
55
60
65
Zian Zero Cross gyro_data
Y
6
4
2
0
-2
-4
40
45
50
55
60
65
Zian Zero Cross gyro_data
X
5
0
-5
40
45
50
55
60
65

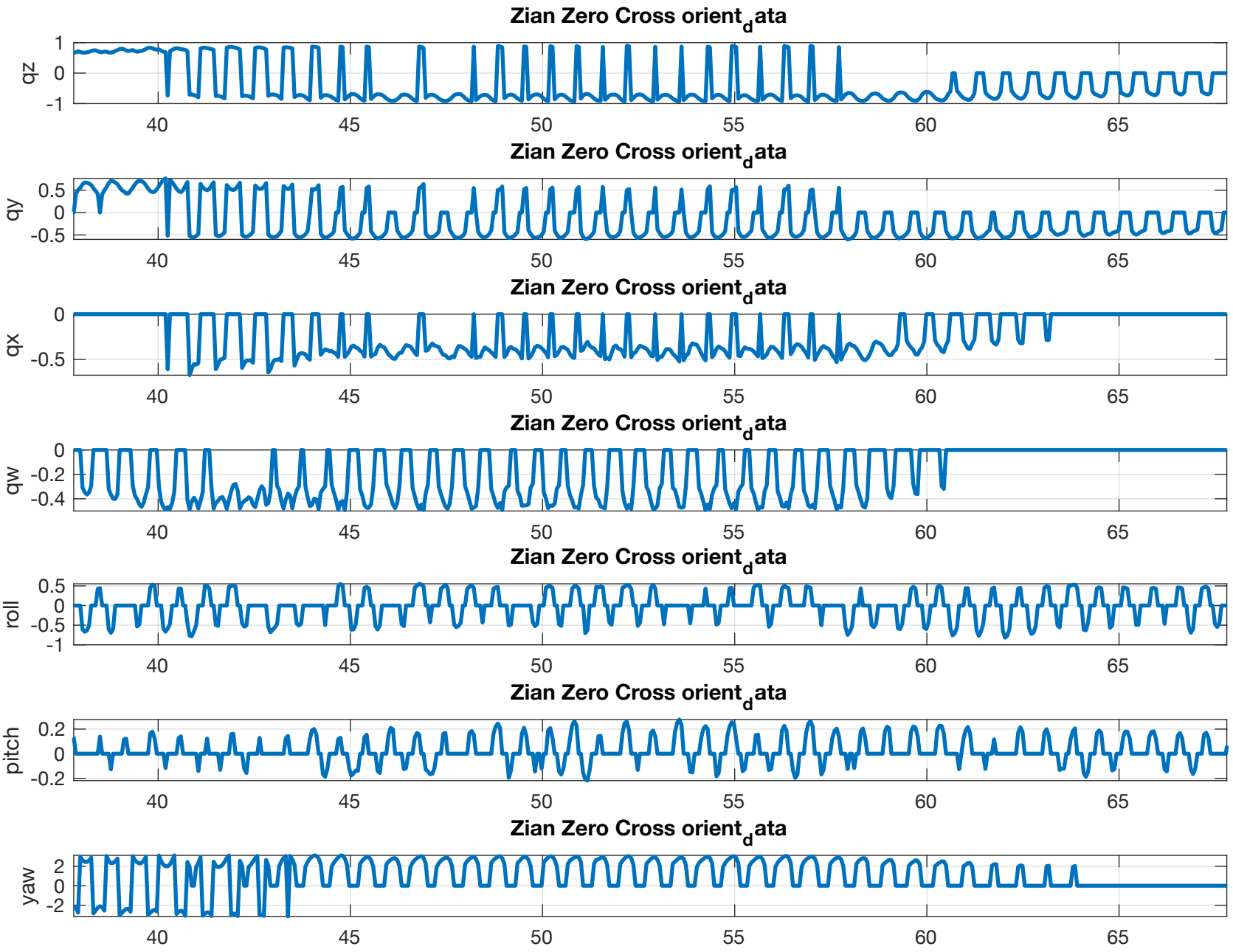
| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | -138.000 | -8.000 | 151.000 | 155.500 | "gyro_data" |
| 'Y' | -168.000 | -8.000 | 150.000 | 73.000 | "gyro_data" |
| 'X' | 143.000 | 145.000 | 248.000 | 149.500 | "gyro_data" |


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


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

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'Z' | 146.000 | 149.000 | 255.000 | 153.000 | "grav_data" |
| 'Y' | 22.000 | 31.000 | 203.000 | 169.500 | "grav_data" |
| 'X' | -87.000 | 22.000 | 166.000 | 165.000 | "grav_data" |


Zian orientdata
qz
1
0
-1
40
45
50
55
60
65
Zian orientdata
qy
0.5
0
-0.5
40
45
50
55
60
65
Zian orientdata
qx
0
-0.2
-0.4
-0.6
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
0.5
0
-0.5
-1
40
45
50
55
60
65
Zian orientdata
pitch
0.2
0
-0.2
40
45
50
55
60
65
Zian orientdata
yaw
2
0
-2
40
45
50
55
60
65


Zian Zero Cross orientdata
qz
1
0
-1
40
45
50
55
60
65
Zian Zero Cross orientdata
qy
0.5
0
-0.5
40
45
50
55
60
65
Zian Zero Cross orientdata
qx
0
-0.5
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
0.5
0
-0.5
-1
40
45
50
55
60
65
Zian Zero Cross orientdata
pitch
0.2
0
-0.2
40
45
50
55
60
65
Zian Zero Cross orientdata
yaw
2
0
-2
40
45
50
55
60
65

| Axis | findpeaks | findpeaks_above_zero | double_findpeaks | zero_cross | Sensor |
|---|---|---|---|---|---|
| 'qz' | 84.000 | 150.000 | 225.000 | 252.250 | "orient_data" |
| 'qy' | 85.000 | 153.000 | 250.000 | 237.250 | "orient_data" |
| 'qx' | 96.000 | 190.000 | 269.000 | 244.750 | "orient_data" |
| 'qw' | 100.000 | 181.000 | 269.000 | 239.500 | "orient_data" |
| 'roll' | 137.000 | 139.000 | 249.000 | 166.500 | "orient_data" |
| 'pitch' | 23.000 | 127.000 | 188.000 | 162.500 | "orient_data" |
| 'yaw' | 91.000 | 175.000 | 256.000 | 214.000 | "orient_data" |

| Sensor | Sensor Axis | Method | Error |
|---|---|---|---|
| 'accel_data' | "Y" | 'findpeaks_above_zero' | 5.000 |
| 'bar_data' | "Relative Altitude" | 'findpeaks' | 14.000 |
| 'gyro_data' | "Z" | 'findpeaks_above_zero' | 8.000 |
| 'grav_data' | "Y" | 'findpeaks' | 22.000 |
| 'orient_data' | "pitch" | 'findpeaks' | 23.000 |