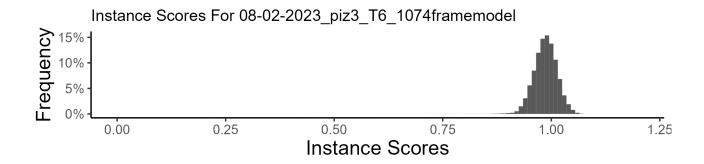
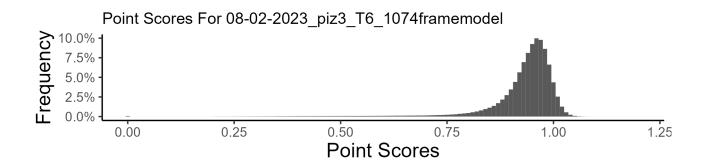
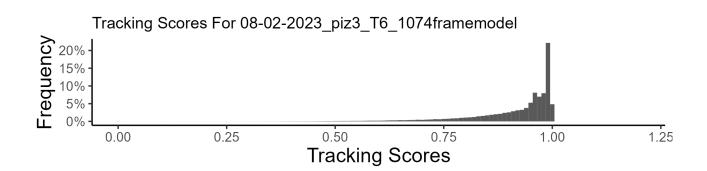
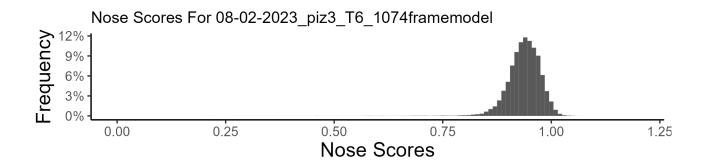
Overall Model MLE Scores, compared to Training Dataset

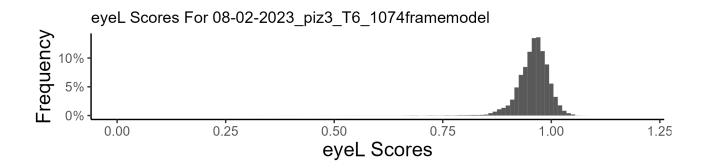


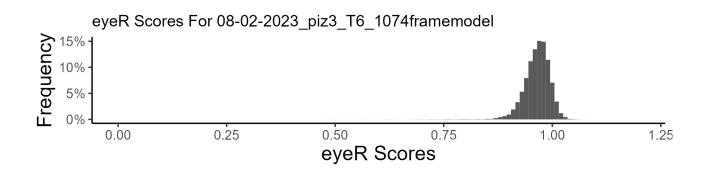


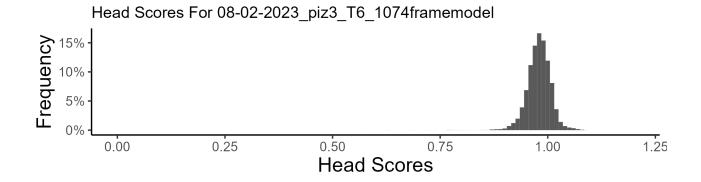


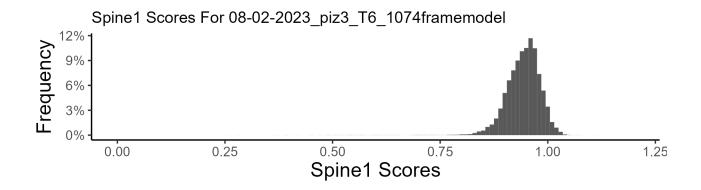
Node MLE Scores, compared to Training Dataset

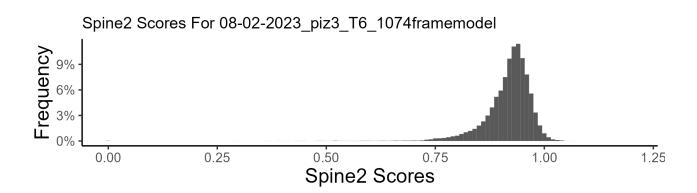


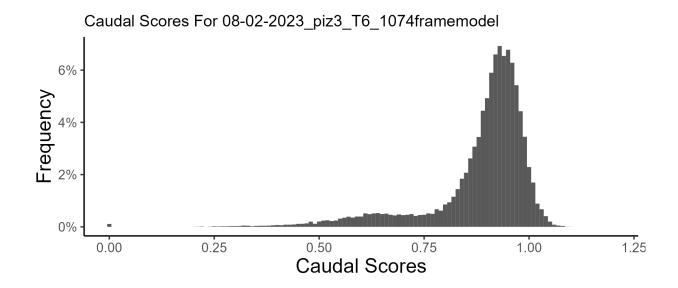


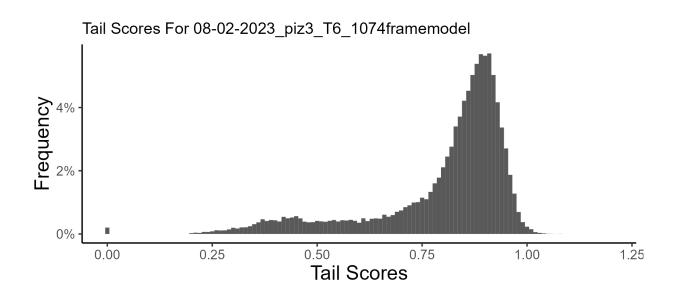












NA Count for each Fish, for each Node

| | track | nodes | nacount | | track | nodes | nacount | | track | nodes | nacount |
|---|-------|--------|---------|---|-------|--------|---------|---|-------|--------|---------|
| 1 | 0 | nose | 55 | 1 | 1 | nose | 29 | 1 | 2 | nose | 29 |
| 2 | 0 | eyeL | 55 | 2 | 1 | eyeL | 29 | 2 | 2 | eyeL | 29 |
| 3 | 0 | eyeR | 55 | 3 | 1 | eyeR | 29 | 3 | 2 | eyeR | 29 |
| 4 | 0 | head | 55 | 4 | 1 | head | 29 | 4 | 2 | head | 29 |
| 5 | 0 | spine1 | 55 | 5 | 1 | spine1 | 29 | 5 | 2 | spine1 | 29 |
| 6 | 0 | spine2 | 63 | 6 | 1 | spine2 | 29 | 6 | 2 | spine2 | 29 |
| 7 | 0 | caudal | 91 | 7 | 1 | caudal | 46 | 7 | 2 | caudal | 29 |
| 8 | 0 | tail | 121 | 8 | 1 | tail | 560 | 8 | 2 | tail | 34 |

| | track | nodes | nacount |
|---|-------|--------|---------|
| 1 | 3 | nose | 53 |
| 2 | 3 | eyeL | 53 |
| 3 | 3 | eyeR | 53 |
| 4 | 3 | head | 53 |
| 5 | 3 | spine1 | 53 |
| 6 | 3 | spine2 | 53 |
| 7 | 3 | caudal | 56 |
| 8 | 3 | tail | 78 |

| | track | nodes | nacount |
|---|-------|--------|---------|
| 1 | 4 | nose | 54 |
| 2 | 4 | eyeL | 54 |
| 3 | 4 | eyeR | 54 |
| 4 | 4 | head | 54 |
| 5 | 4 | spine1 | 54 |
| 6 | 4 | spine2 | 56 |
| 7 | 4 | caudal | 57 |
| 8 | 4 | tail | 269 |