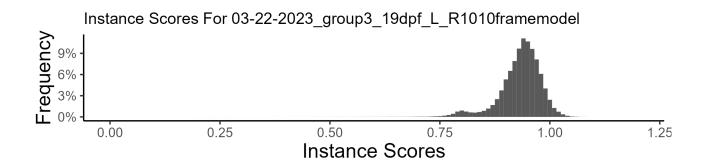
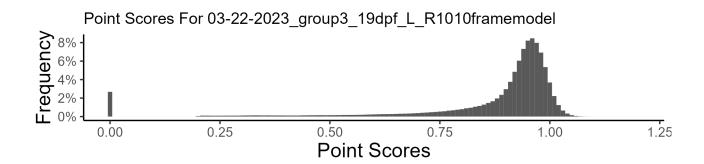
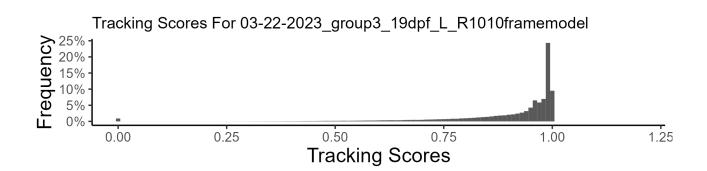
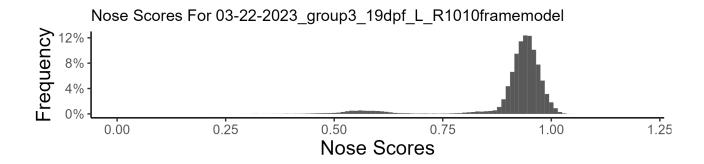
Overall Model MLE Scores, compared to Training Dataset

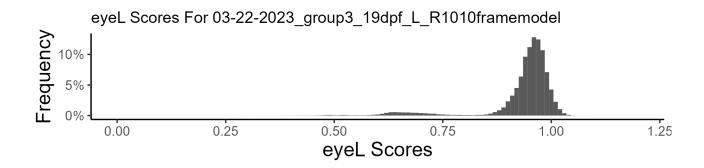


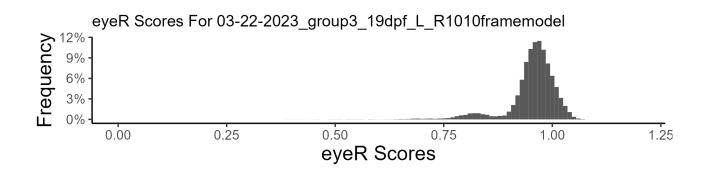


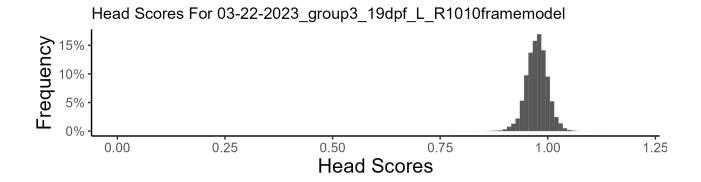


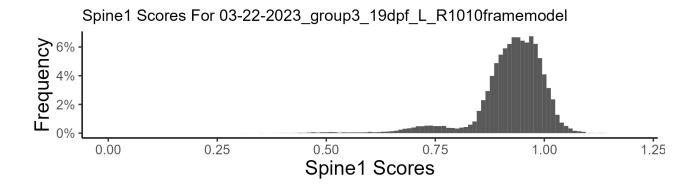
Node MLE Scores, compared to Training Dataset

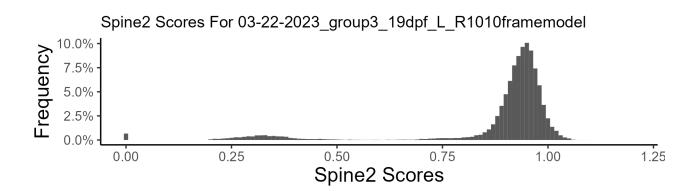


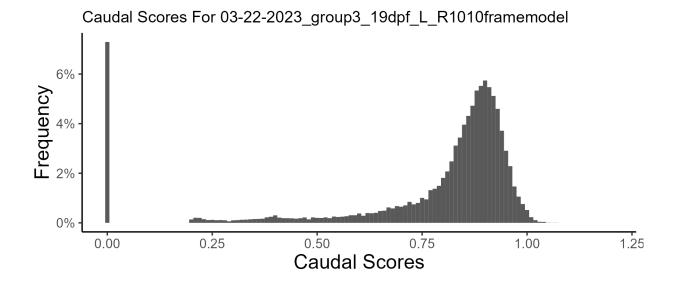


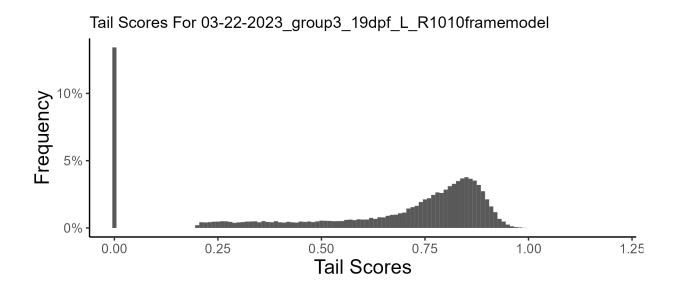












NA Count for each Fish, for each Node

| | track | nodes | nacount | | track | nodes | nacount | | track | nodes | nacount |
|---|-------|--------|---------|---|-------|--------|---------|---|-------|--------|---------|
| 1 | 0 | nose | 0 | 1 | 1 | nose | 2 | 1 | 2 | nose | 2 |
| 2 | 0 | eyeL | 0 | 2 | 1 | eyeL | 0 | 2 | 2 | eyeL | 0 |
| 3 | 0 | eyeR | 0 | 3 | 1 | eyeR | 0 | 3 | 2 | eyeR | 0 |
| 4 | 0 | head | 0 | 4 | 1 | head | 0 | 4 | 2 | head | 0 |
| 5 | 0 | spine1 | 0 | 5 | 1 | spine1 | 0 | 5 | 2 | spine1 | 0 |
| 6 | 0 | spine2 | 300 | 6 | 1 | spine2 | 634 | 6 | 2 | spine2 | 548 |
| 7 | 0 | caudal | 3283 | 7 | 1 | caudal | 3005 | 7 | 2 | caudal | 3243 |
| 8 | 0 | tail | 6041 | 8 | 1 | tail | 6716 | 8 | 2 | tail | 5780 |

| | track | nodes | nacount |
|---|-------|--------|---------|
| 1 | 3 | nose | 0 |
| 2 | 3 | eyeL | 0 |
| 3 | 3 | eyeR | 0 |
| 4 | 3 | head | 0 |
| 5 | 3 | spine1 | 0 |
| 6 | 3 | spine2 | 847 |
| 7 | 3 | caudal | 3571 |
| 8 | 3 | tail | 6850 |

| | track | nodes | nacount |
|---|-------|--------|---------|
| 1 | 4 | nose | 6 |
| 2 | 4 | eyeL | 6 |
| 3 | 4 | eyeR | 6 |
| 4 | 4 | head | 6 |
| 5 | 4 | spine1 | 6 |
| 6 | 4 | spine2 | 533 |
| 7 | 4 | caudal | 2548 |
| 8 | 4 | tail | 4304 |