

```
In [1]: import os
import json
from cog_analysis import analyze_session

summary = []

base_dir = "../Data_Sailnjord/Straight_lines"

# Scan de tous les dossiers de date
for date_folder in sorted(os.listdir(base_dir)):
    date_path = os.path.join(base_dir, date_folder)

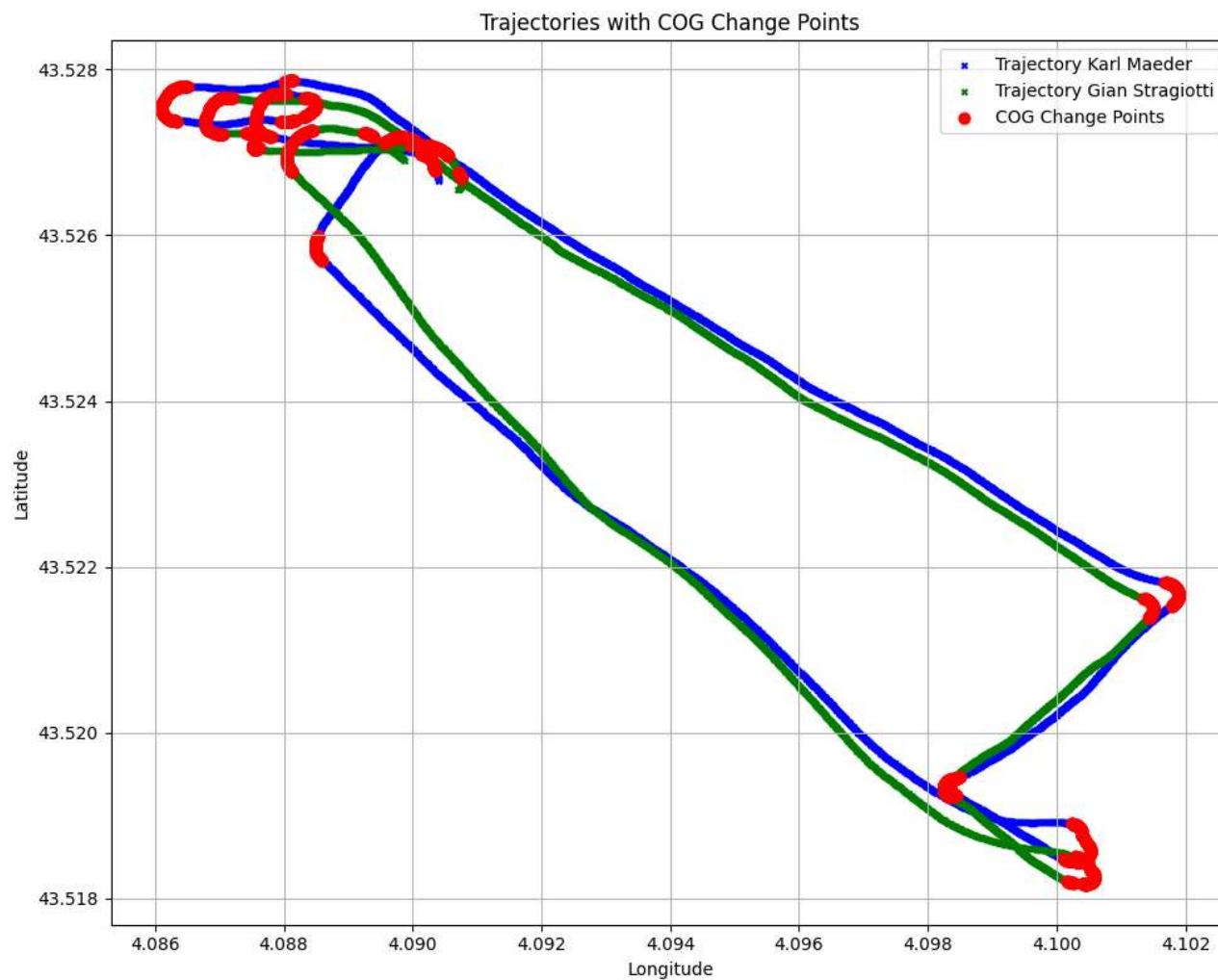
    # Scan de tous les runs dans chaque dossier de date
    for run_folder in sorted(os.listdir(date_path)):
        run_path = os.path.join(date_path, run_folder)

        # Cherche 2 fichiers .csv
        csv_files = [f for f in os.listdir(run_path) if f.endswith(".csv")]
        if len(csv_files) != 2:
            print(f"Ignoré: {run_path} (attendu 2 CSV, trouvé {len(csv_files)}")
            continue
        csv_paths = [os.path.join(run_path, f) for f in csv_files]
        print(f"Analyse: {csv_files[0]} et {csv_files[1]} dans {run_path}")
        try:
            longest_intervals = analyze_session(csv_paths[0], csv_paths[1])
            summary.append({
                "run": run_folder,
                "intervals": longest_intervals
            })
        except Exception as e:
            print(f"Erreur dans {run_path} : {e}")

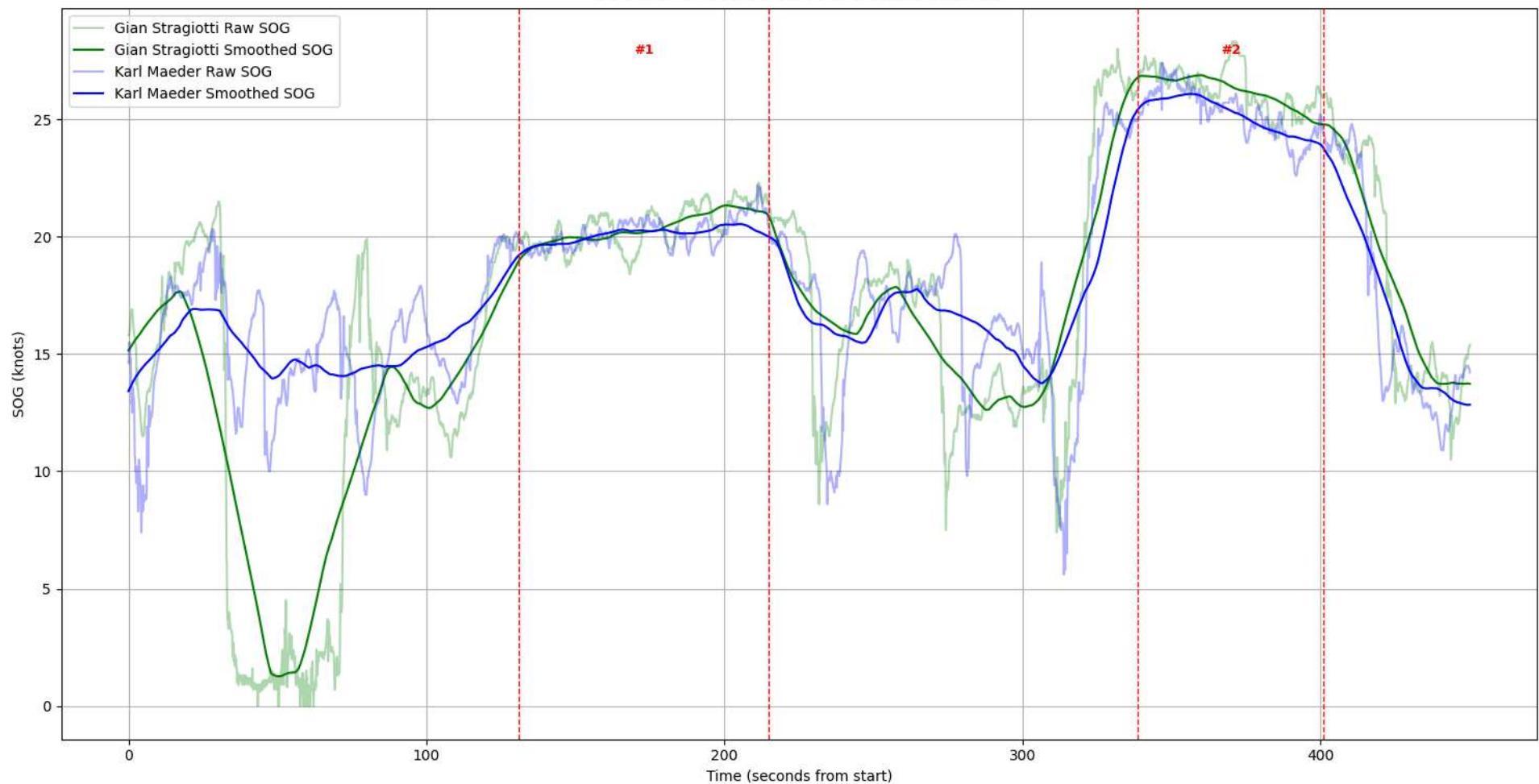
# Sauvegarde du résumé (tout est reconstruit à chaque fois)
summary_file = "summary.json"
with open(summary_file, "w") as f:
    json.dump(summary, f, indent=2)

print(f"Résumé complet sauvegardé ({len(summary)} runs)")
```

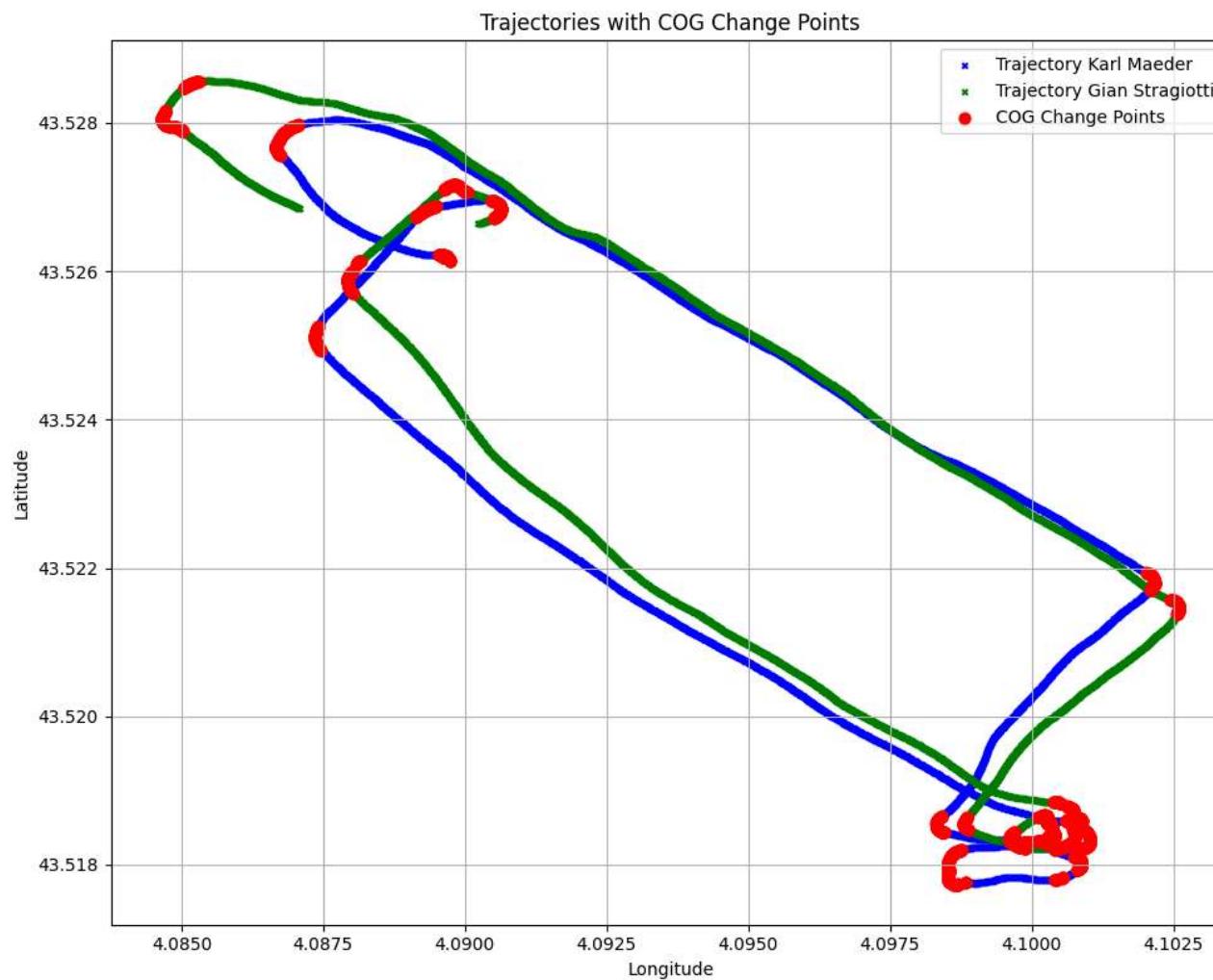
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ../Data_Sailnjord/Straight_lines\06_06\06_06_Run1

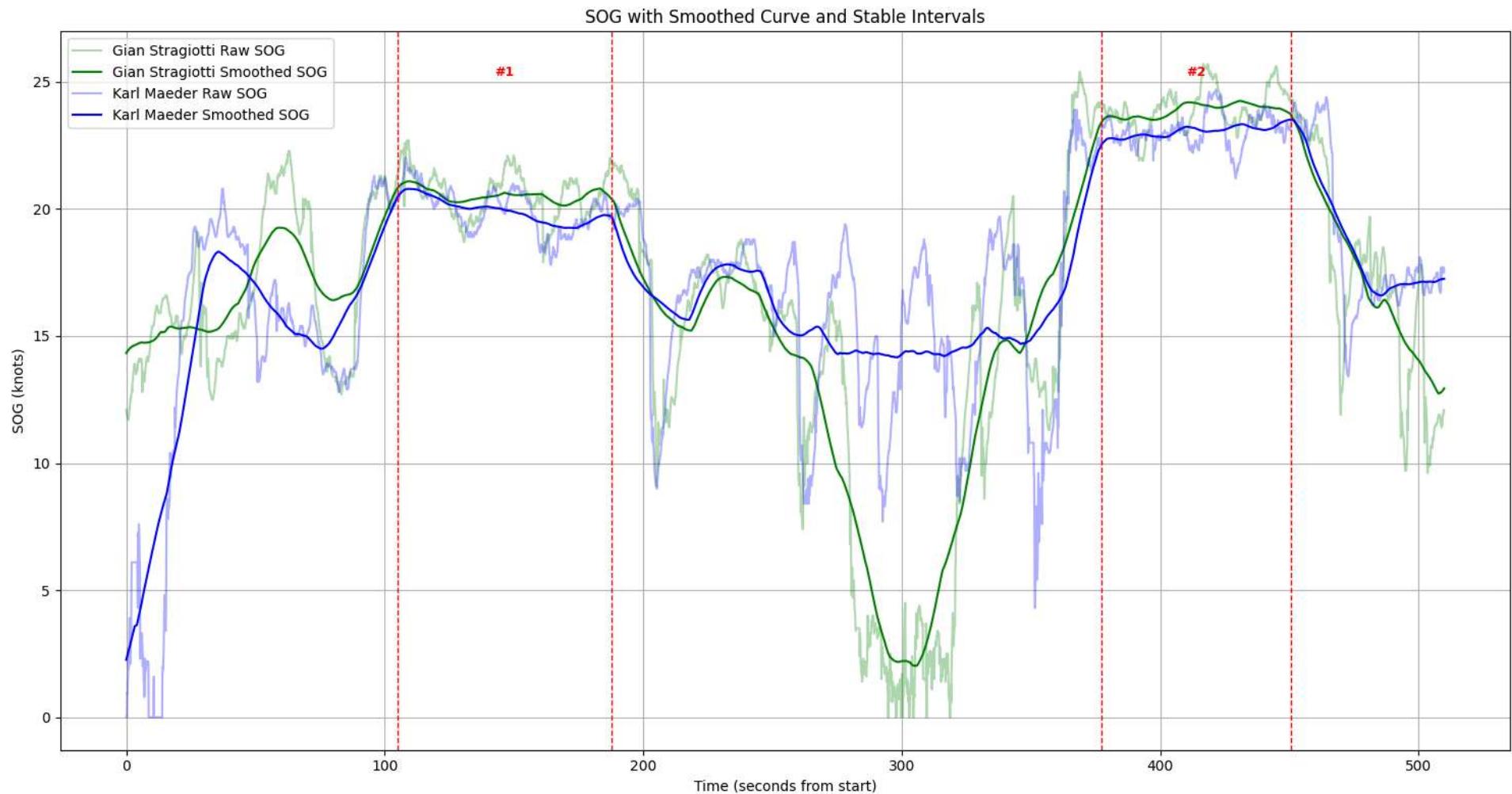


SOG with Smoothed Curve and Stable Intervals

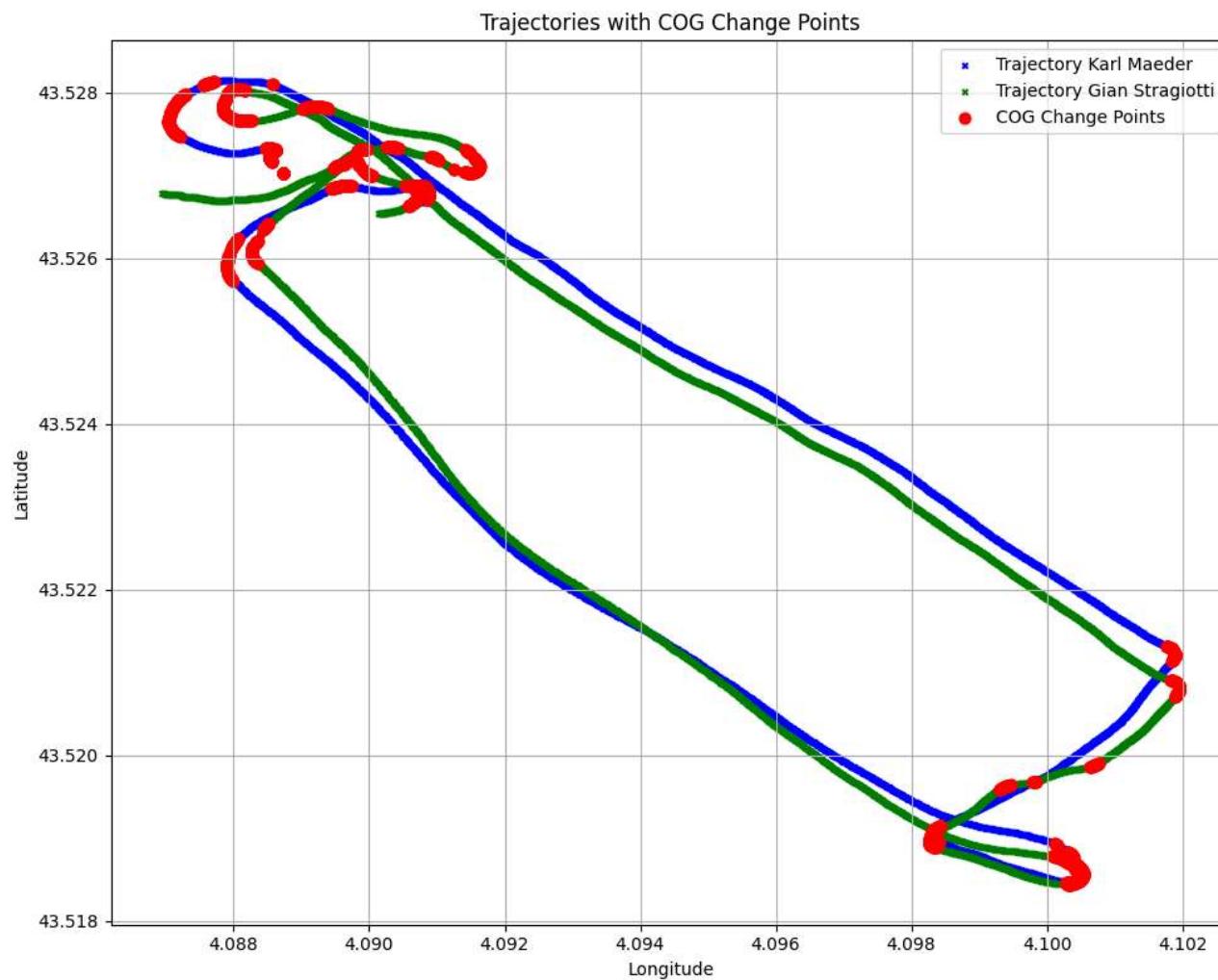


Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\06_06\06_06_Run2

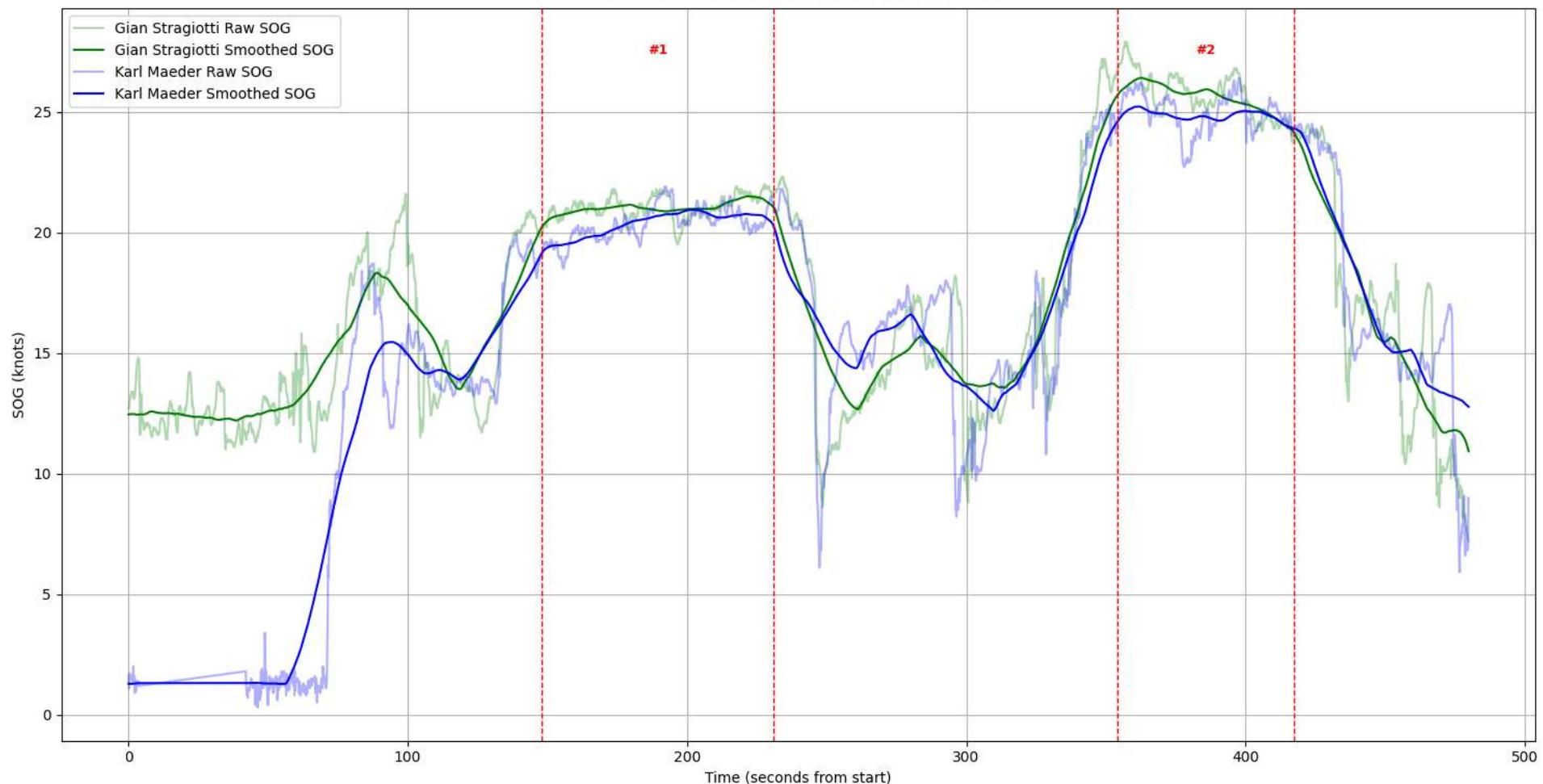




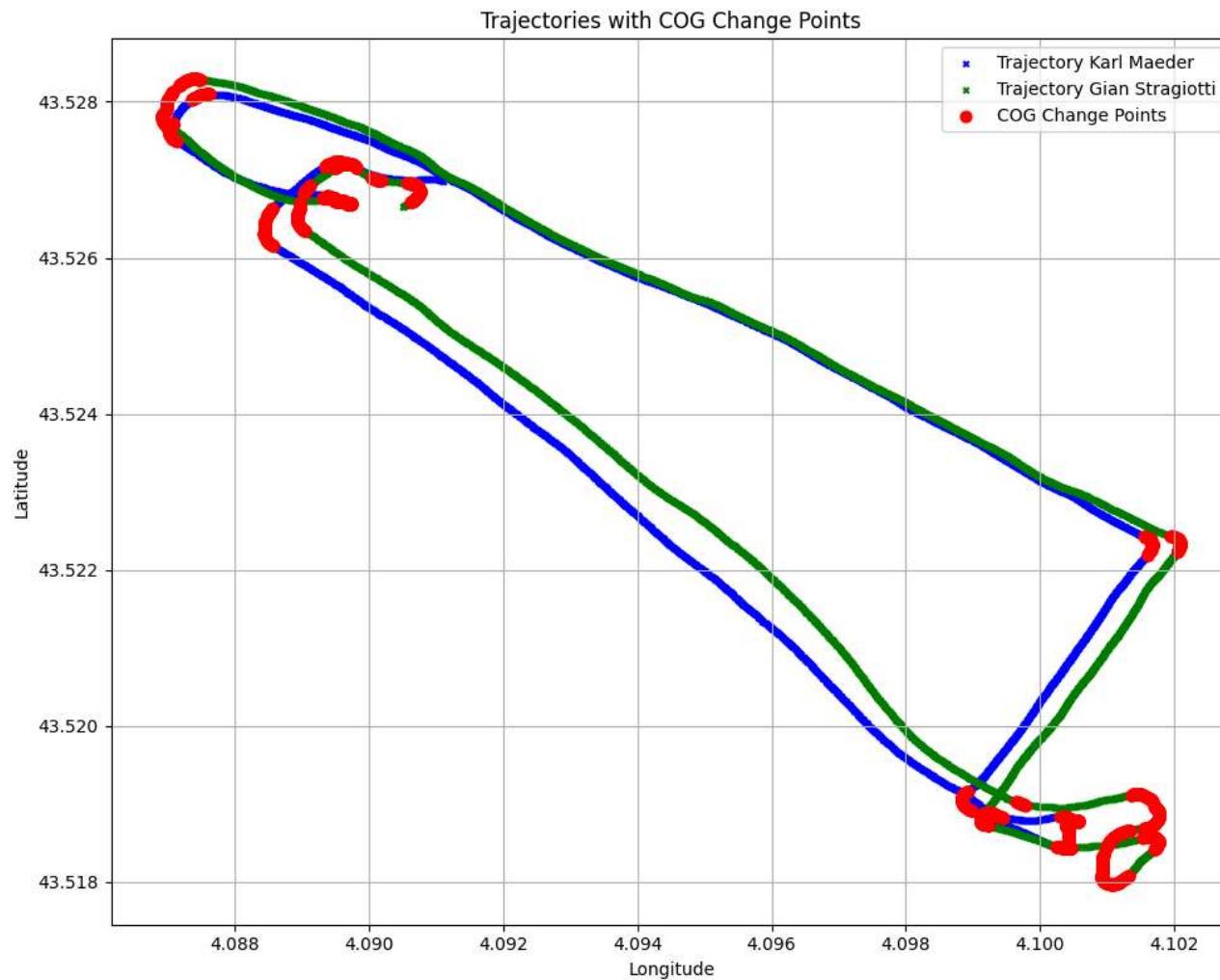
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans/Data_Sailnjord/Straight_lines\06_06\06_06_Run3



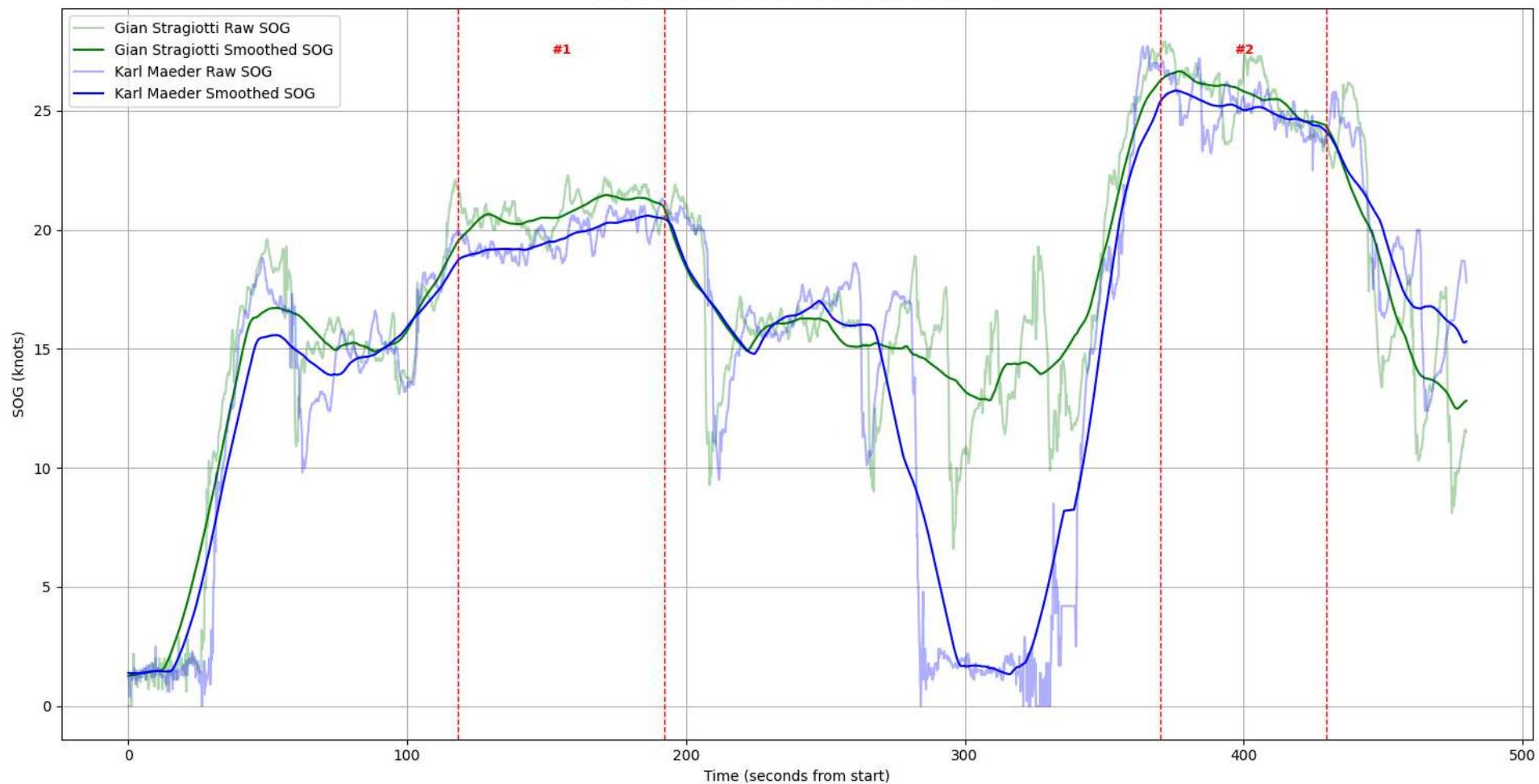
SOG with Smoothed Curve and Stable Intervals



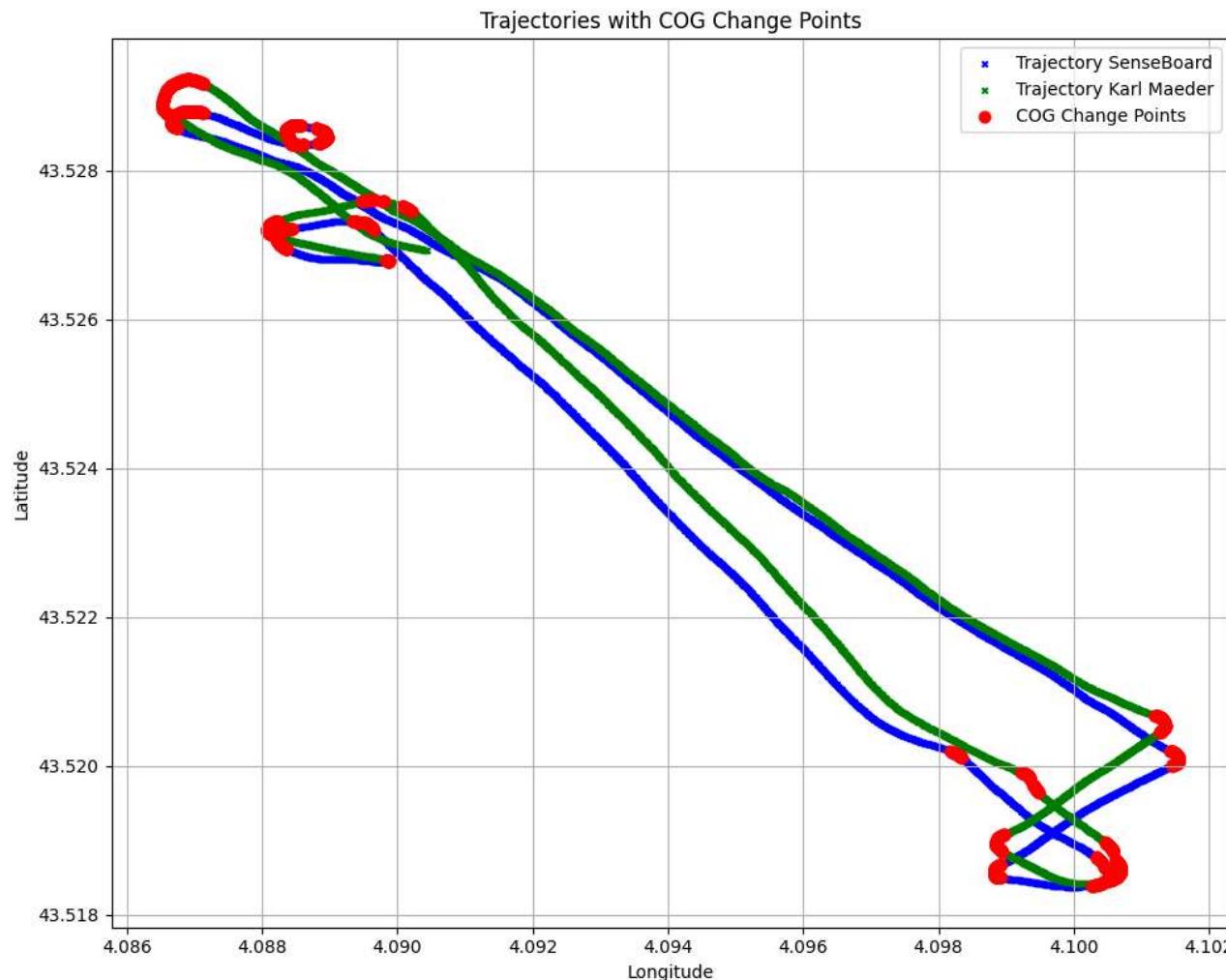
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\06_06\06_06_Run4

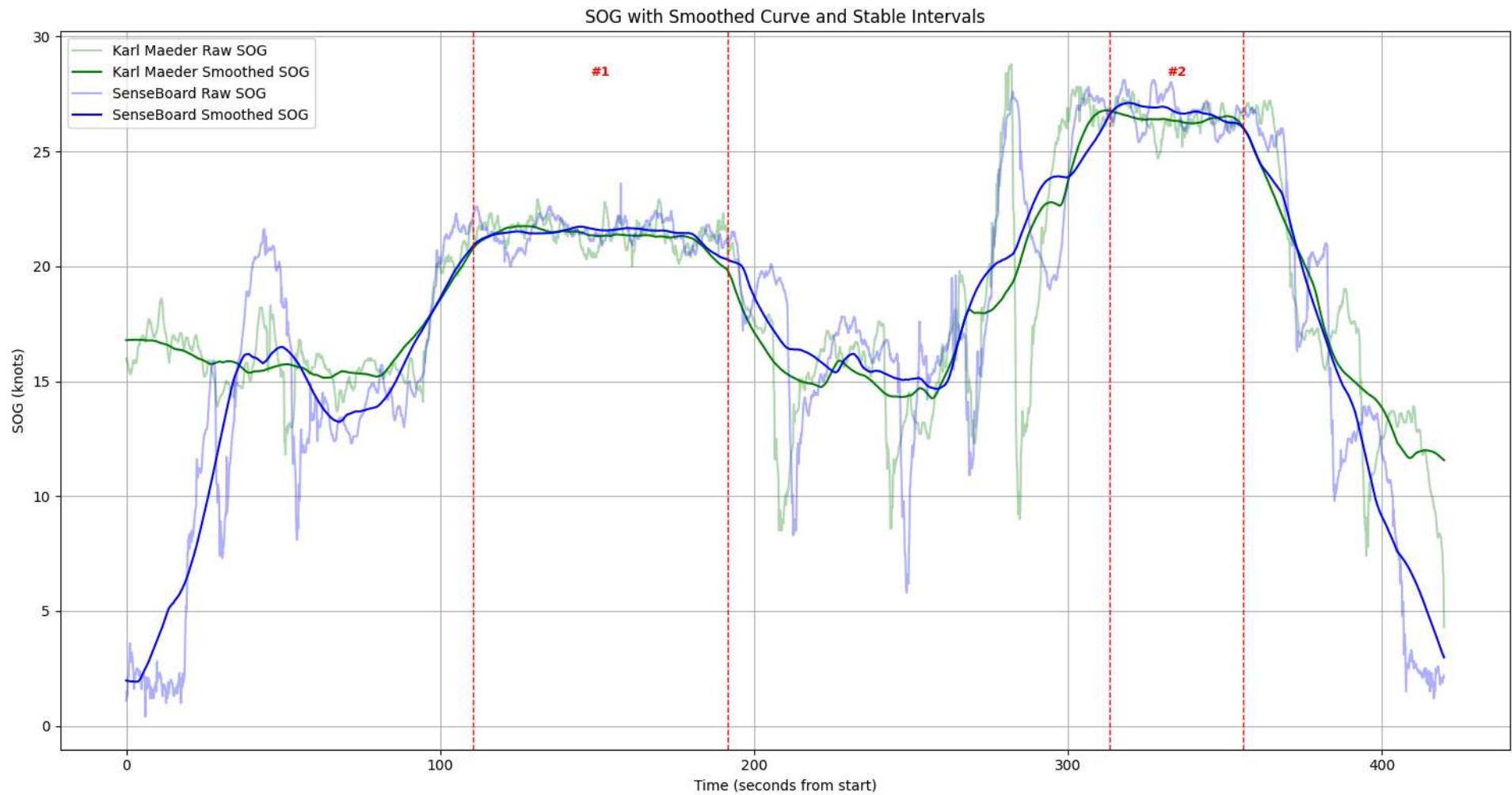


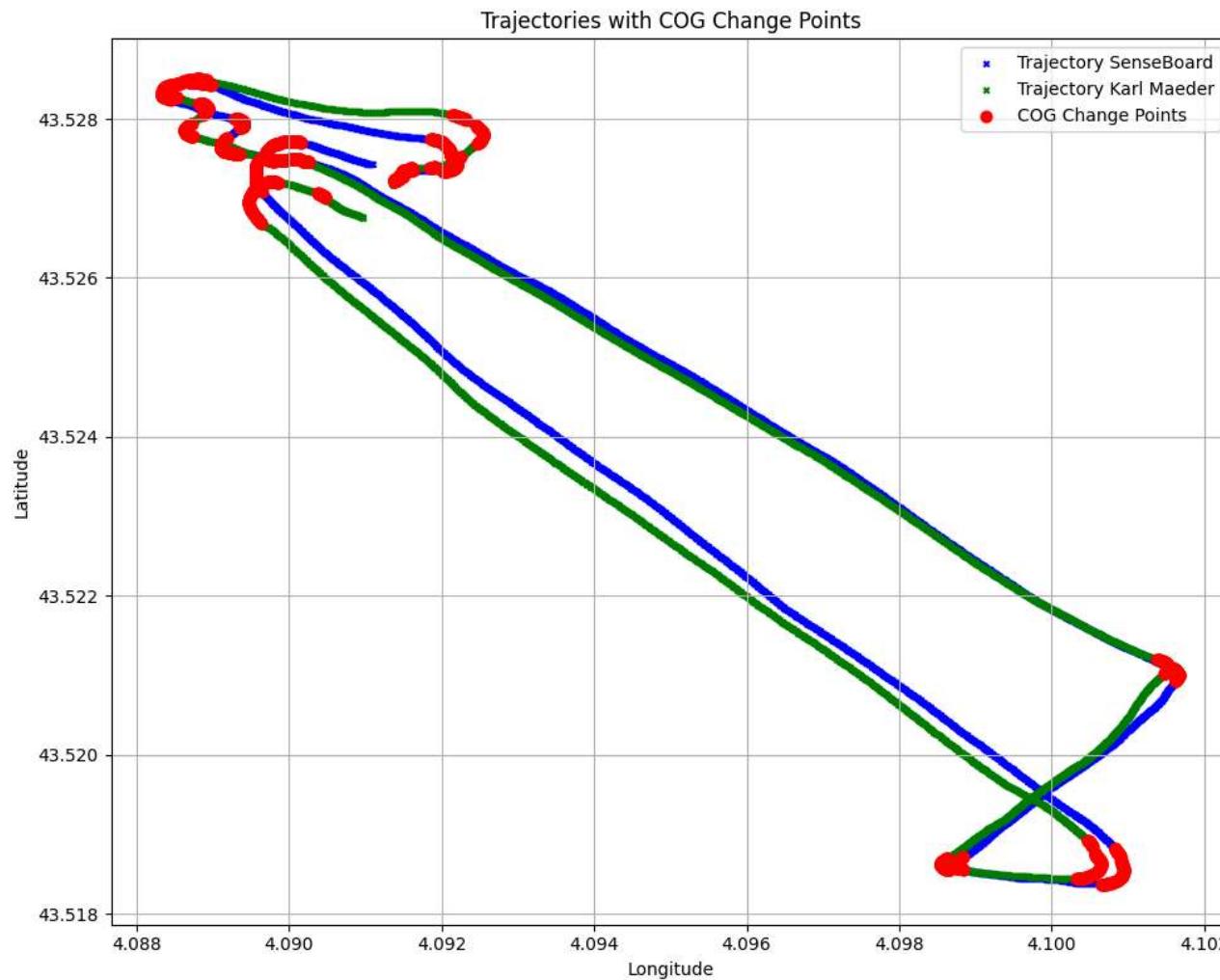
SOG with Smoothed Curve and Stable Intervals

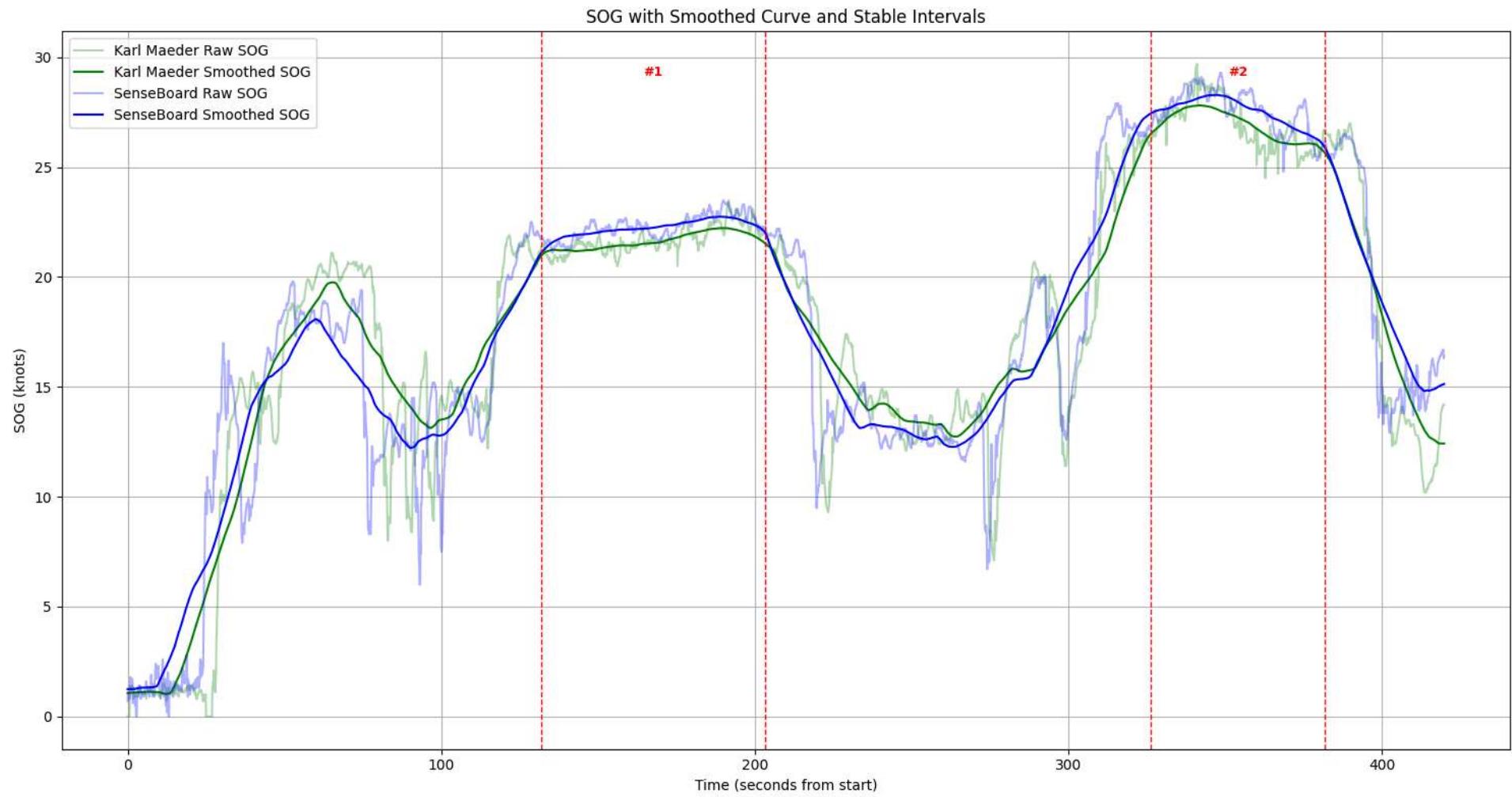


Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\06_06\06_06_Run5

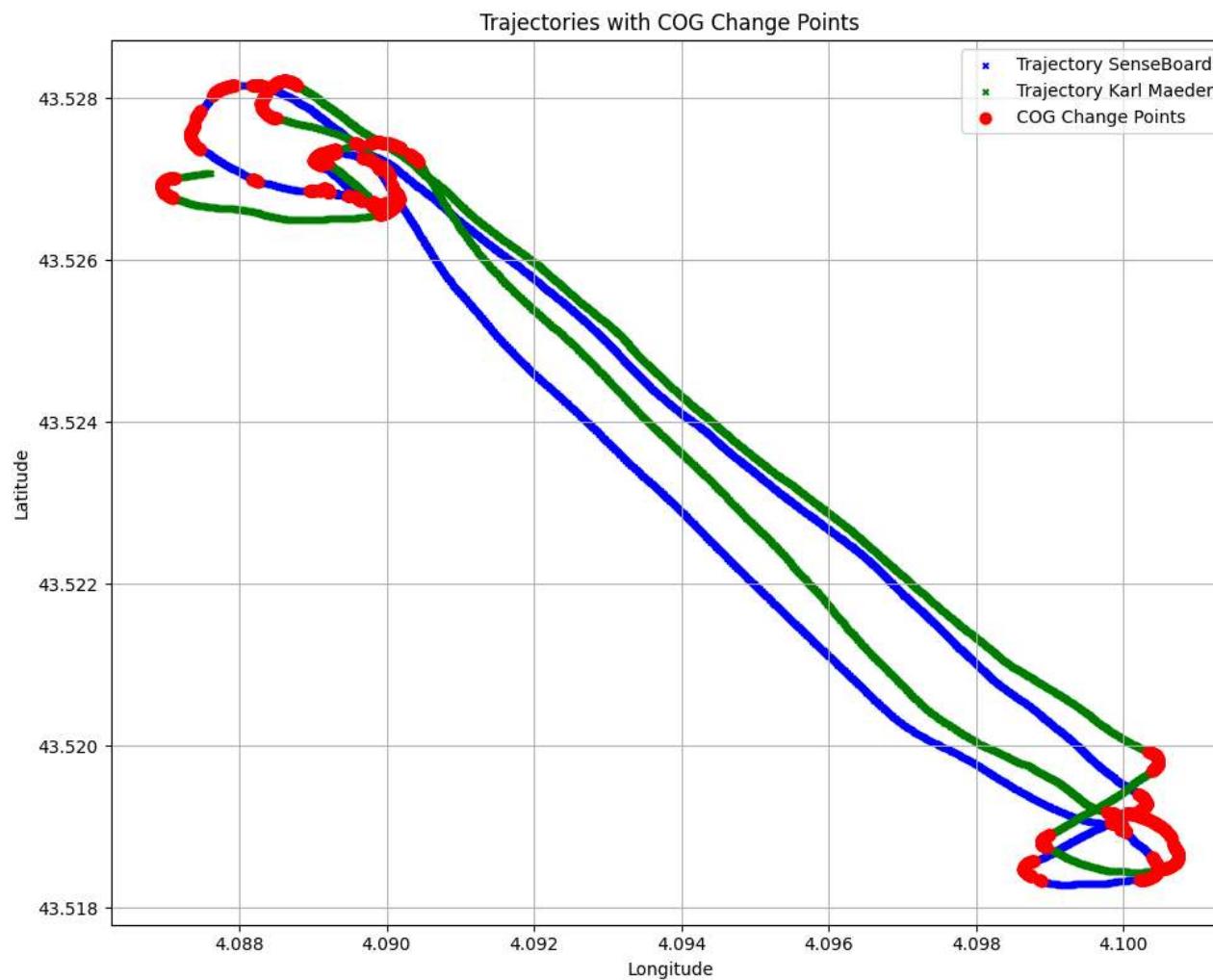


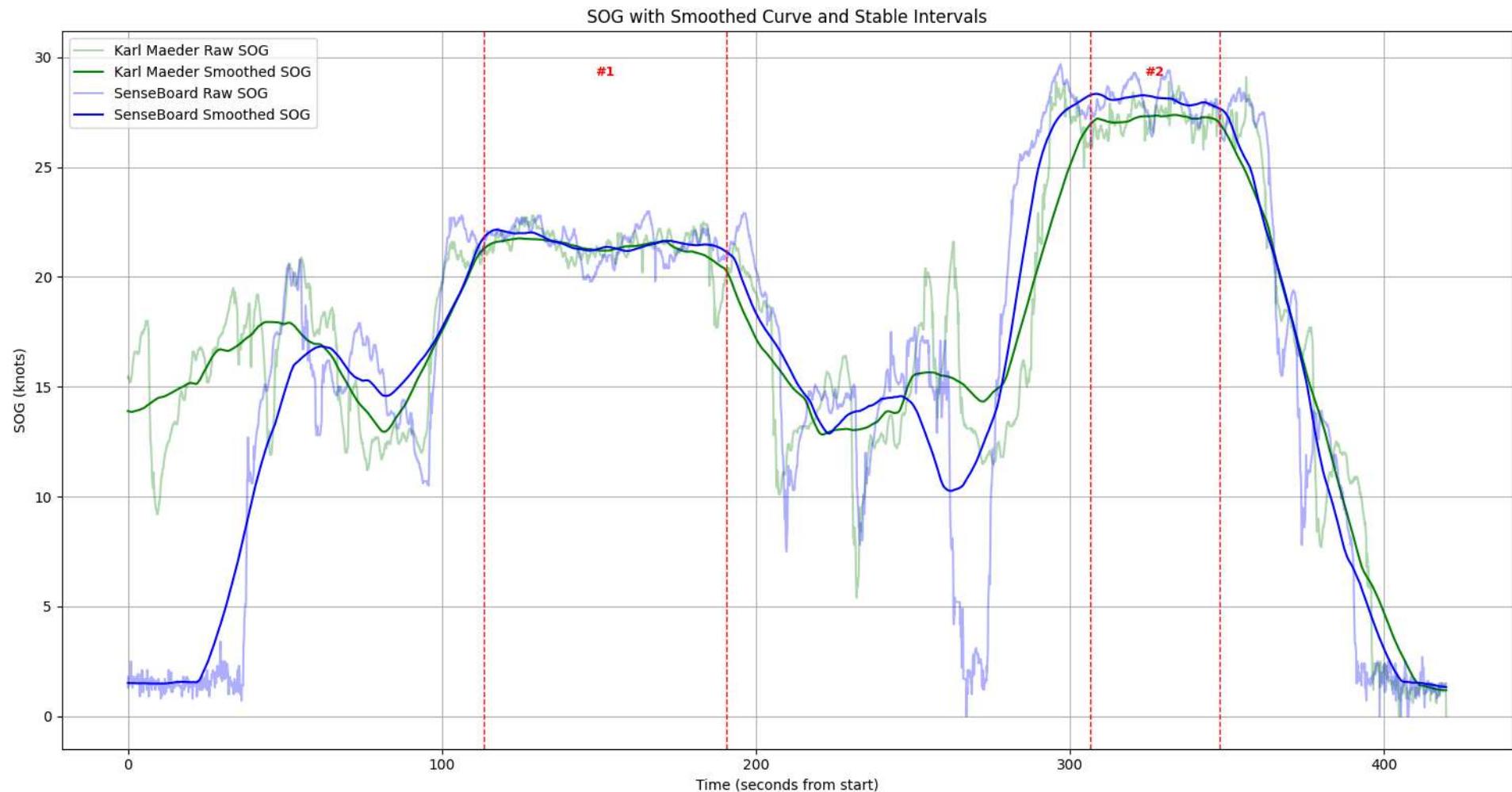




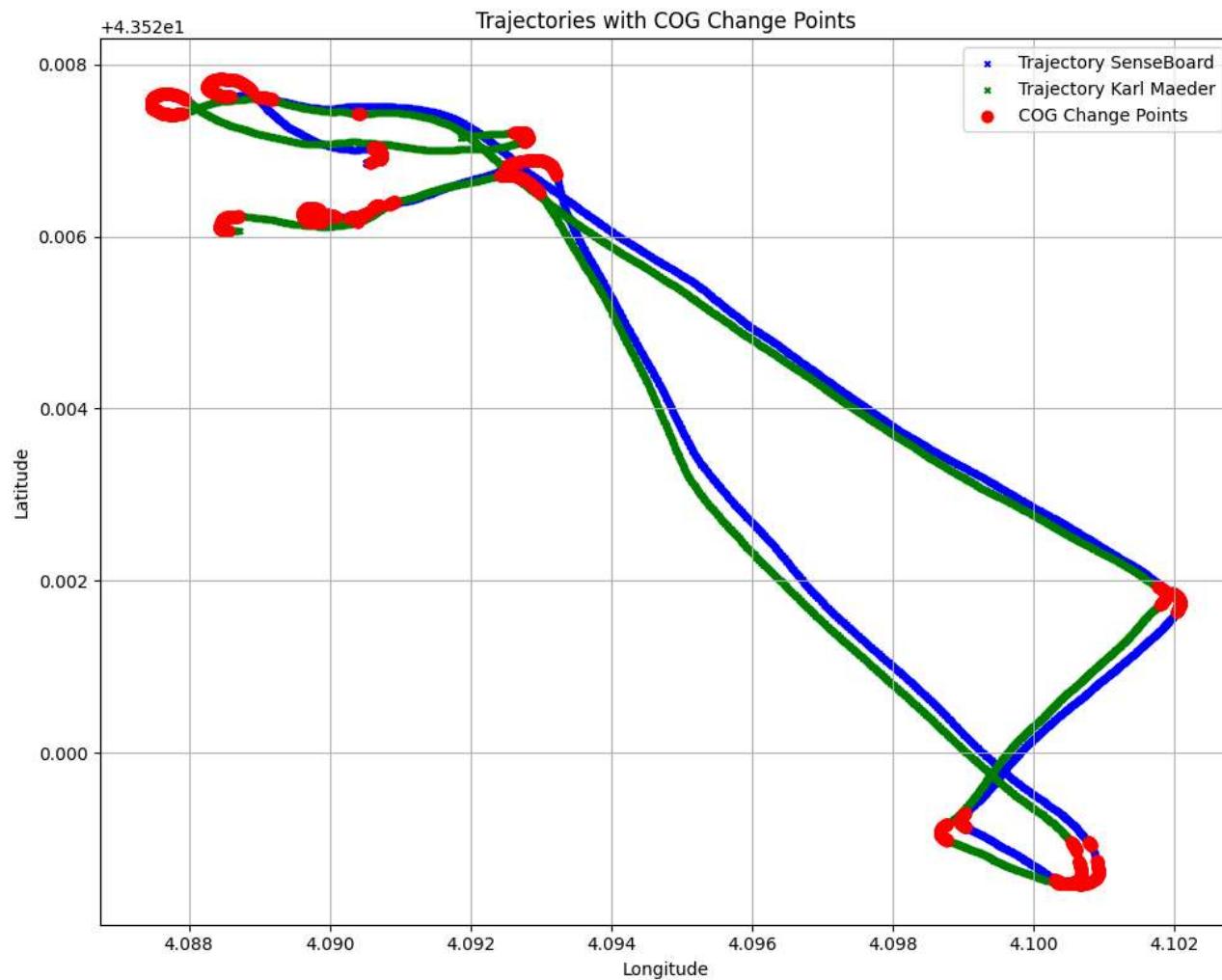


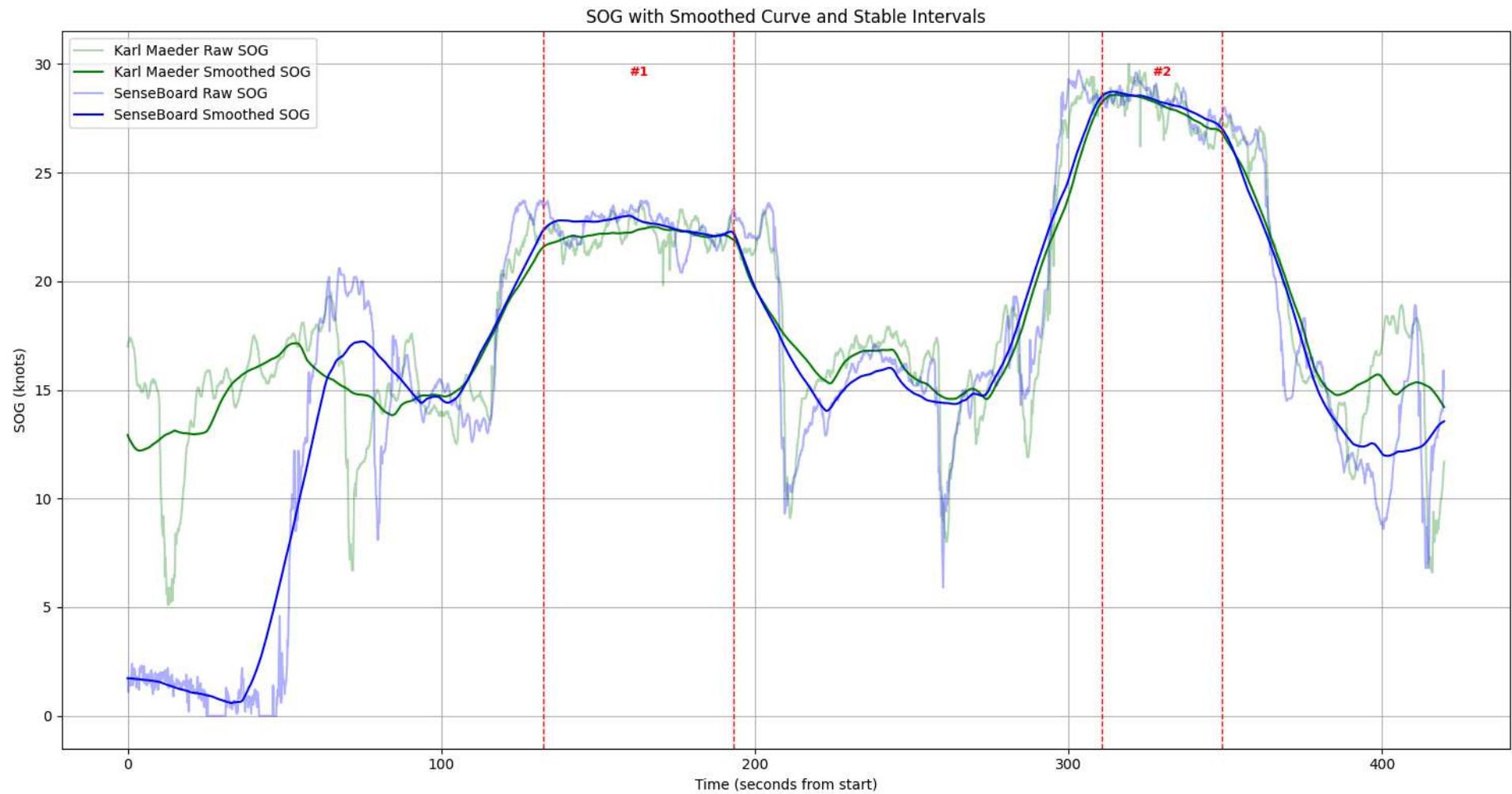
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\06_06\06_06_Run7

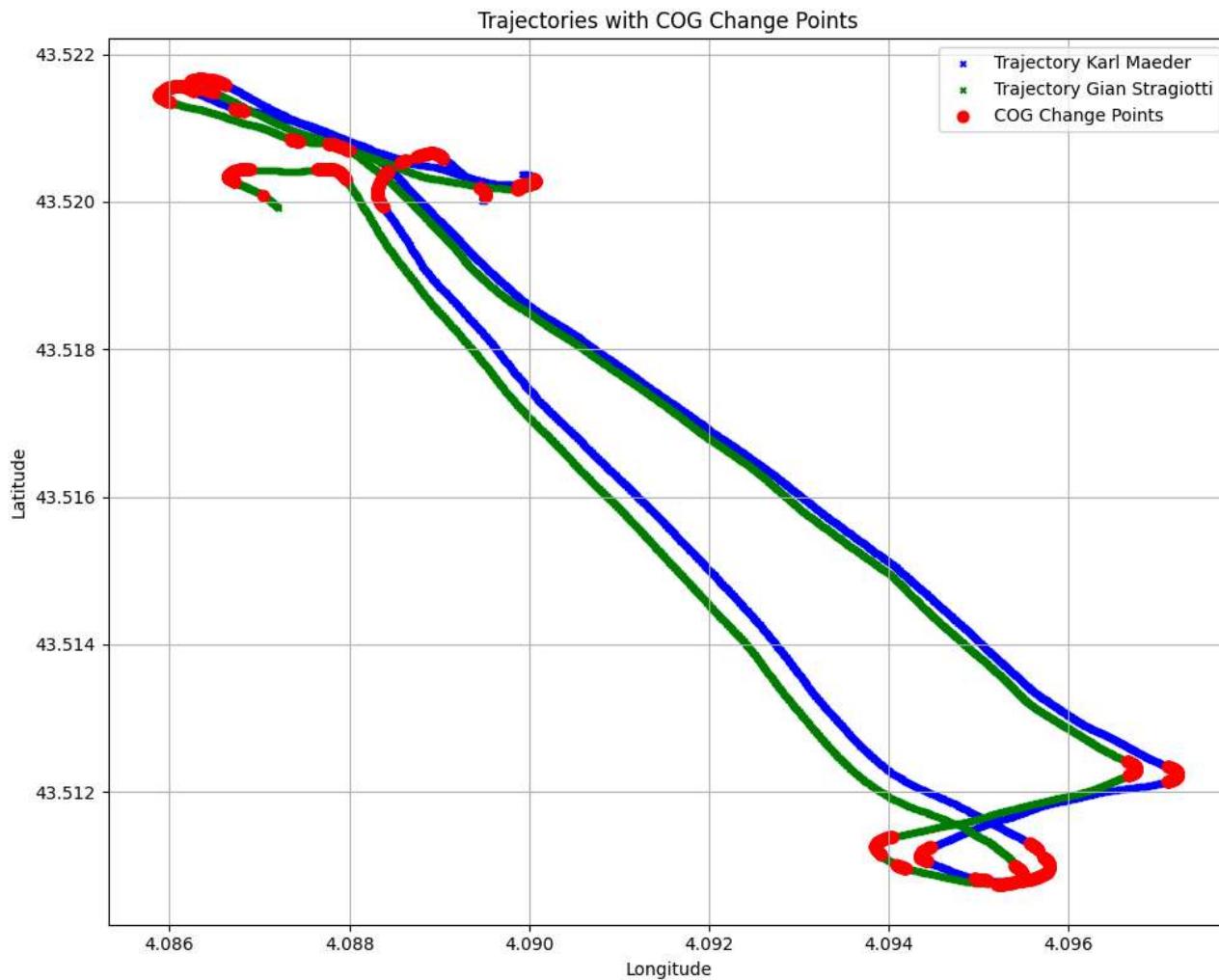


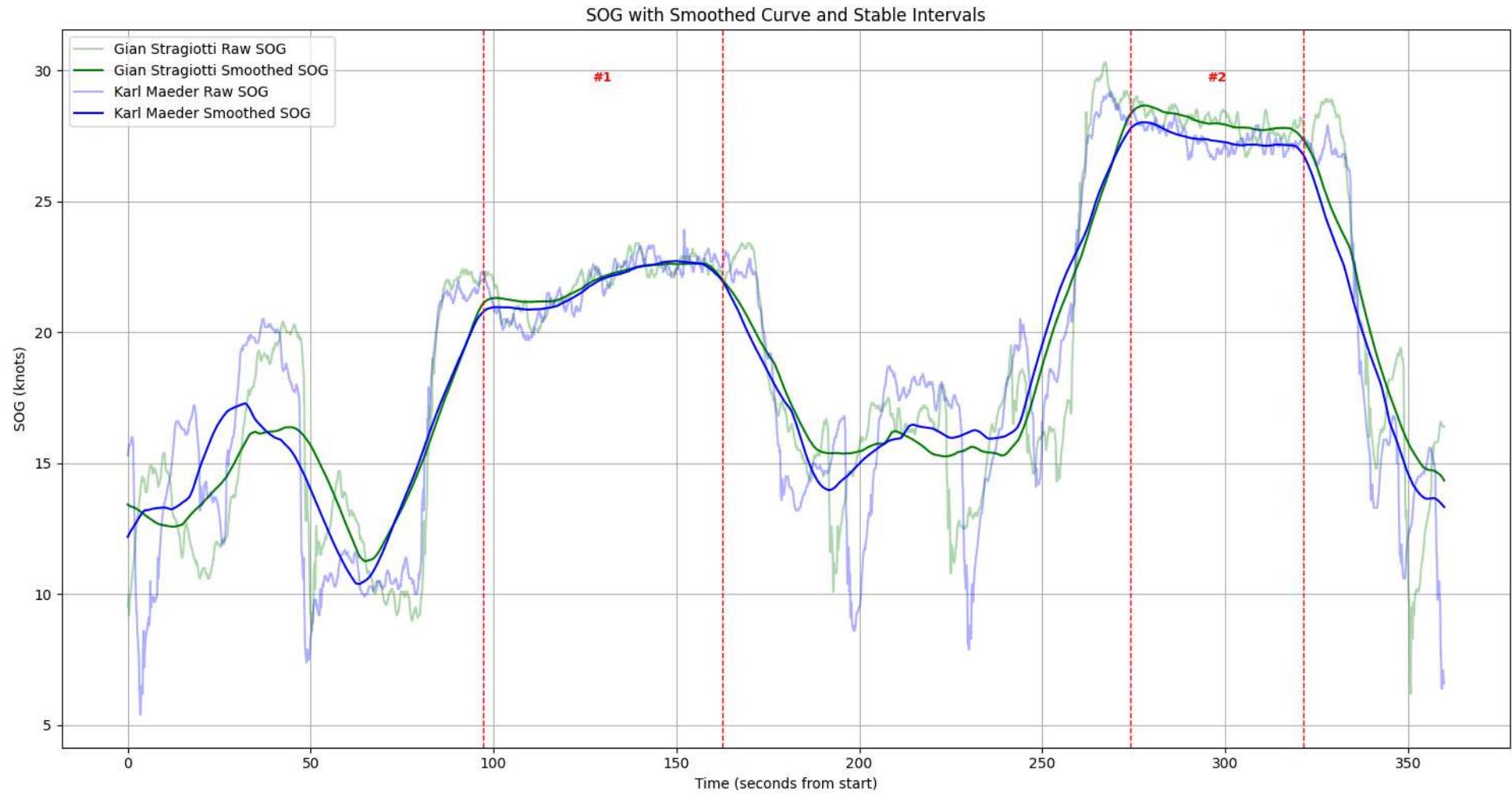


Analyse: Karl Maeder.csv et SenseBoard.csv dans .../Data_Sailnjord/Straight_lines\06_06\06_06_Run8

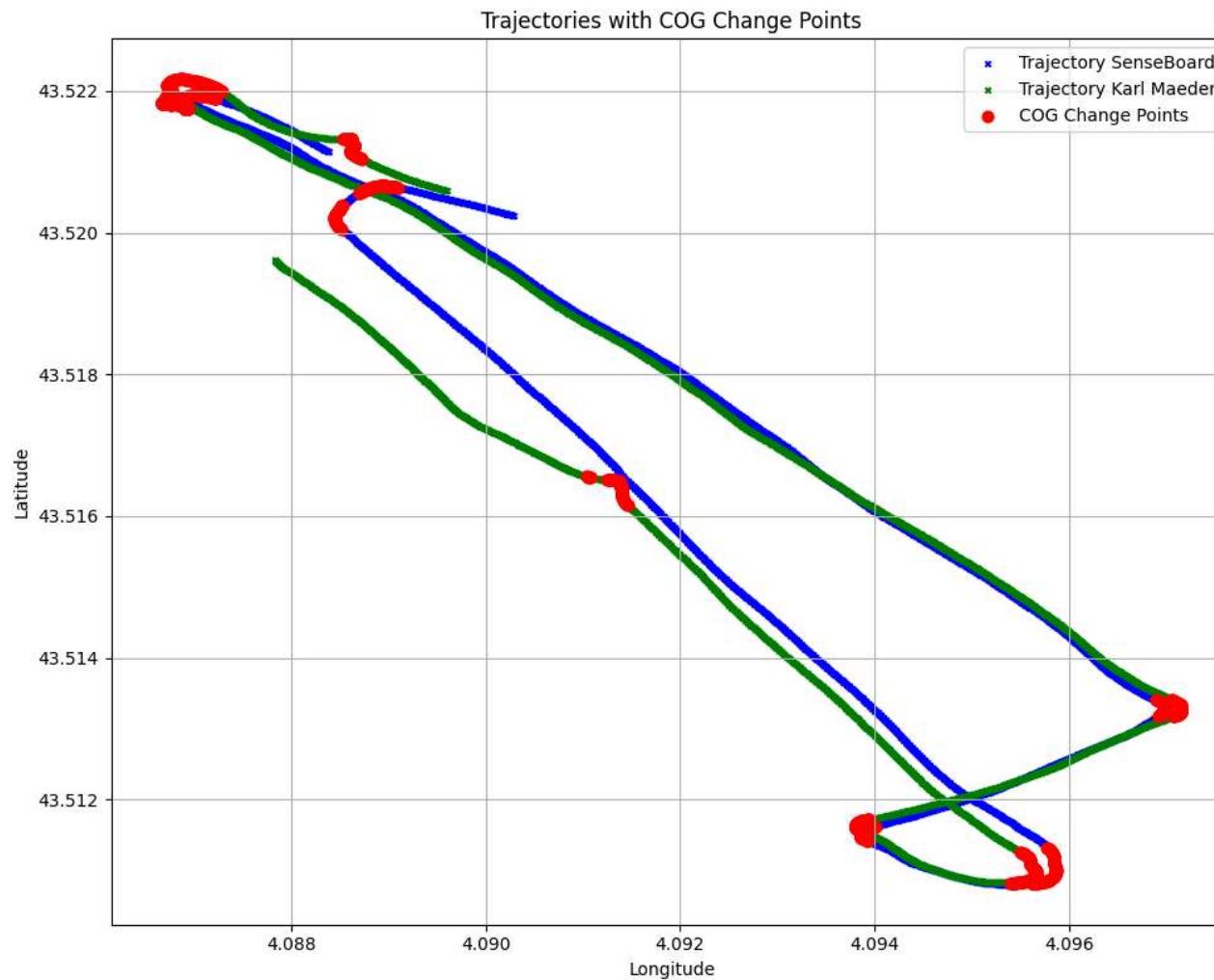


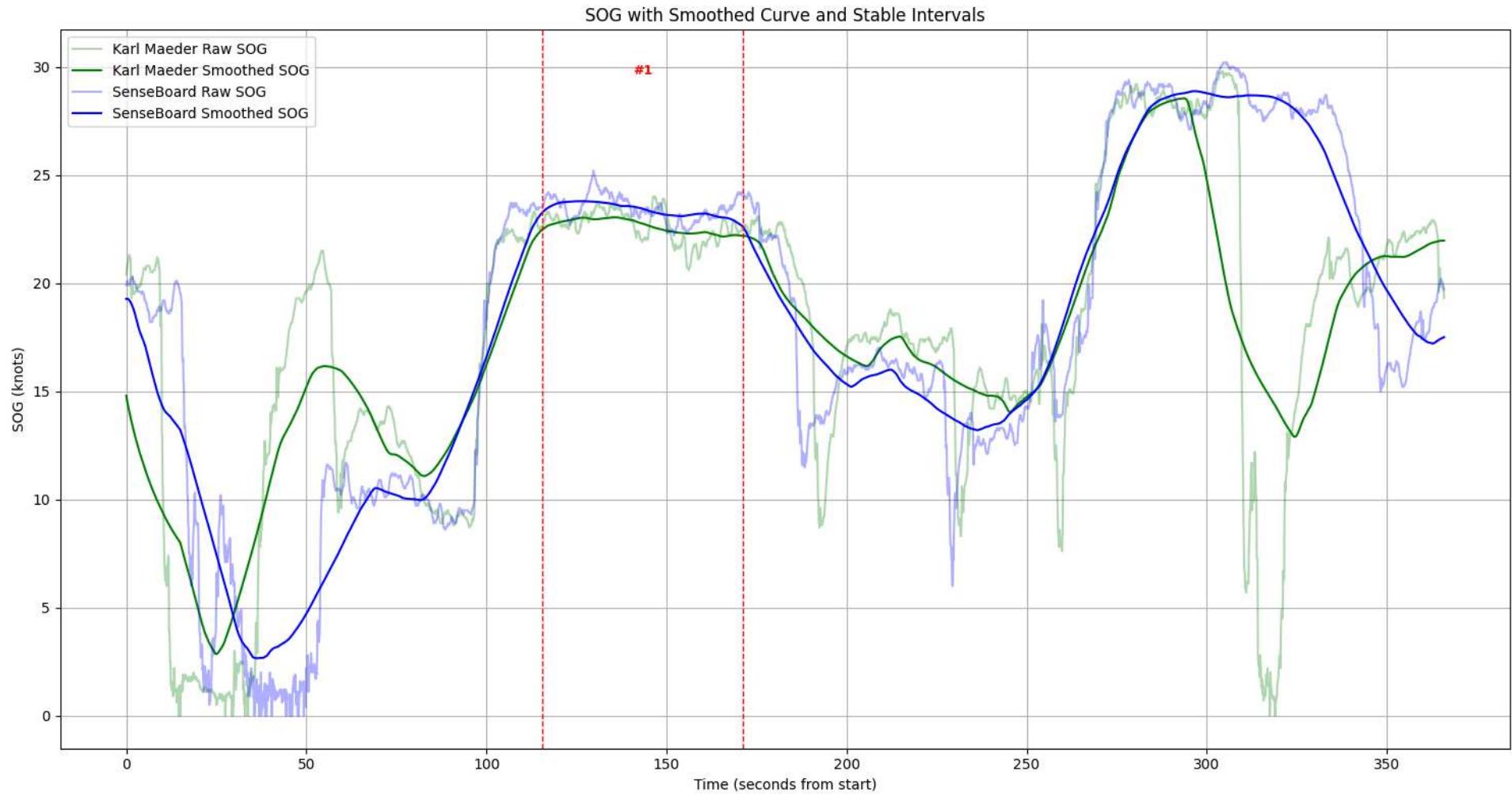




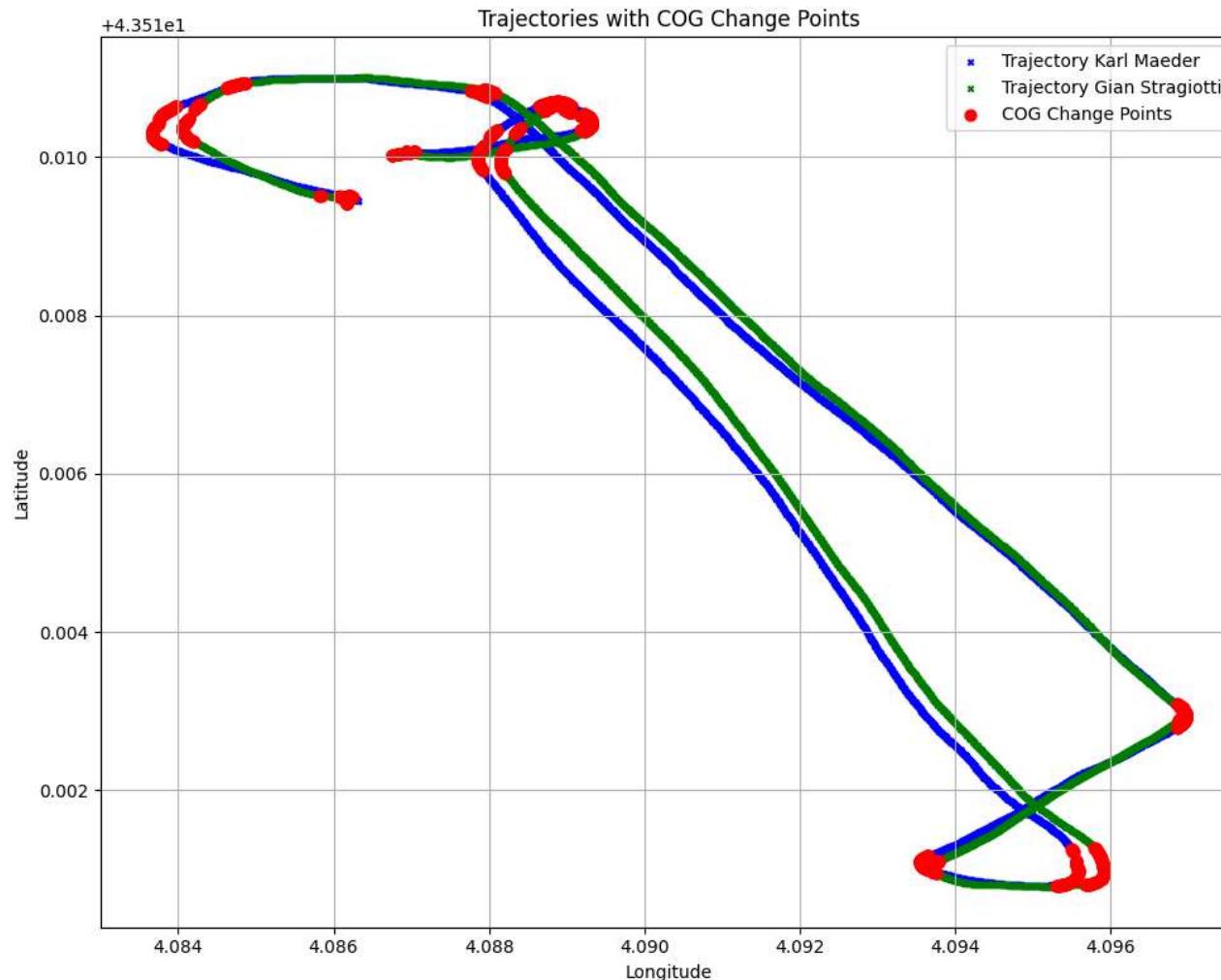


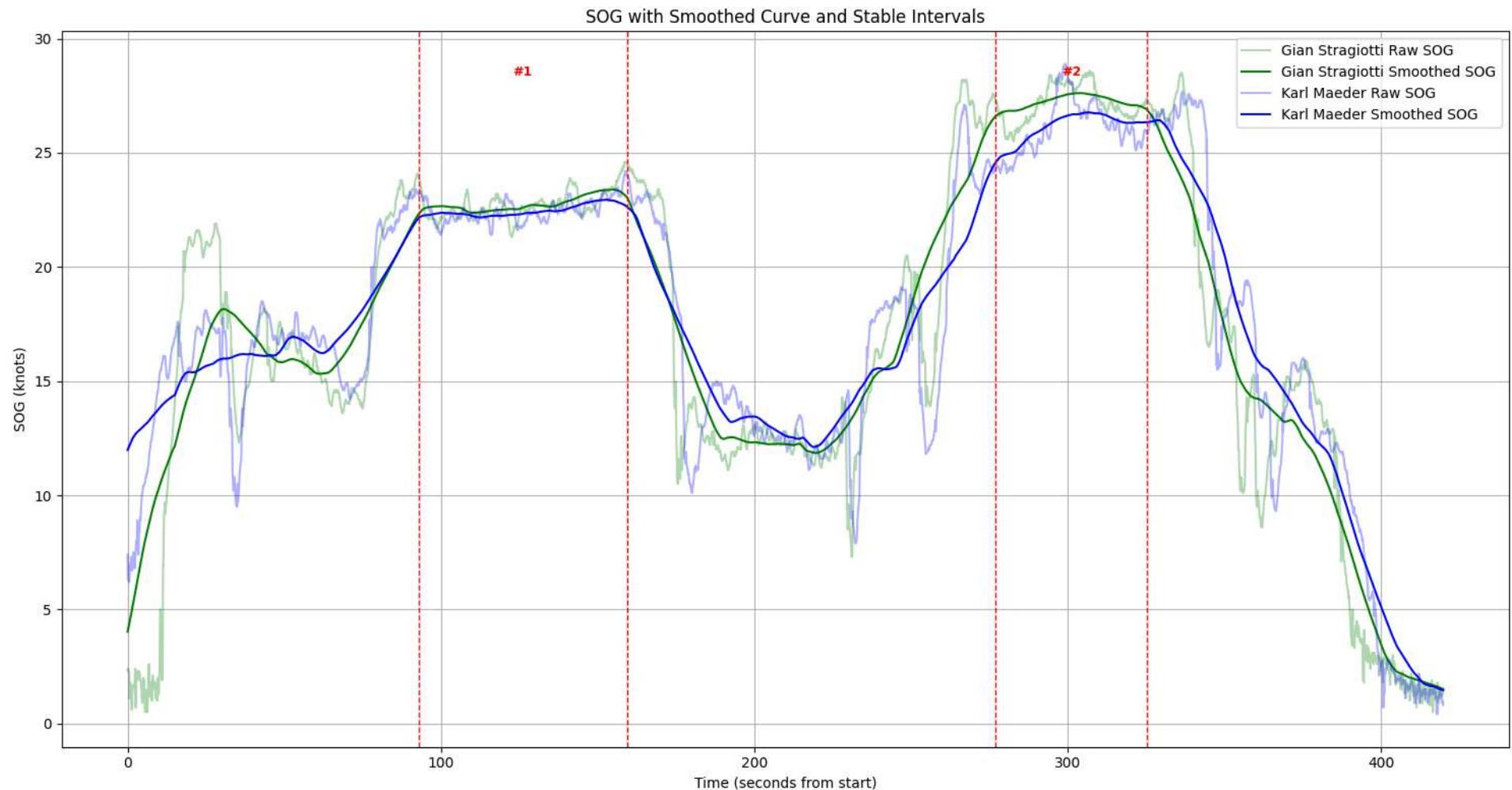
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\07_06\07_06_Run10



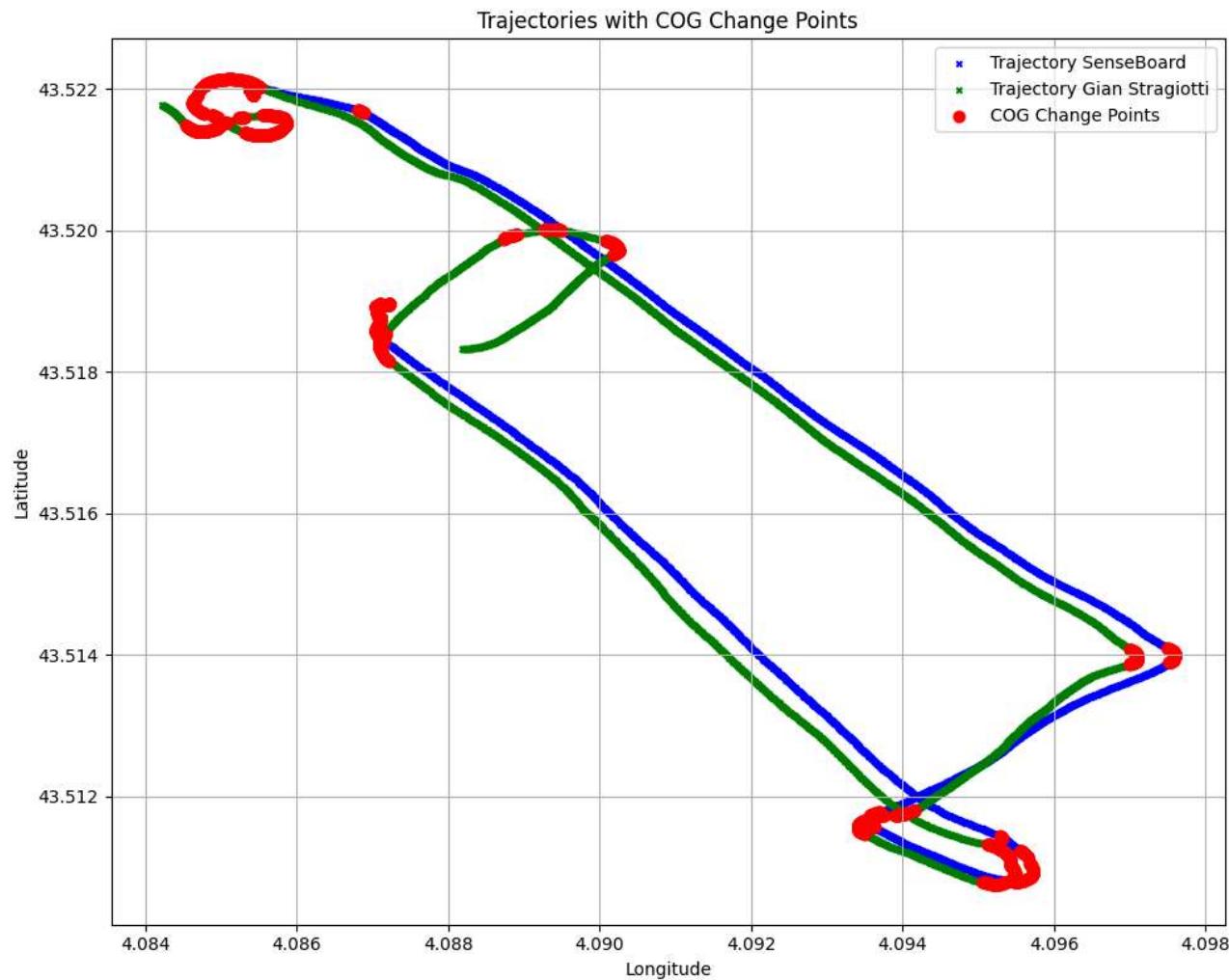


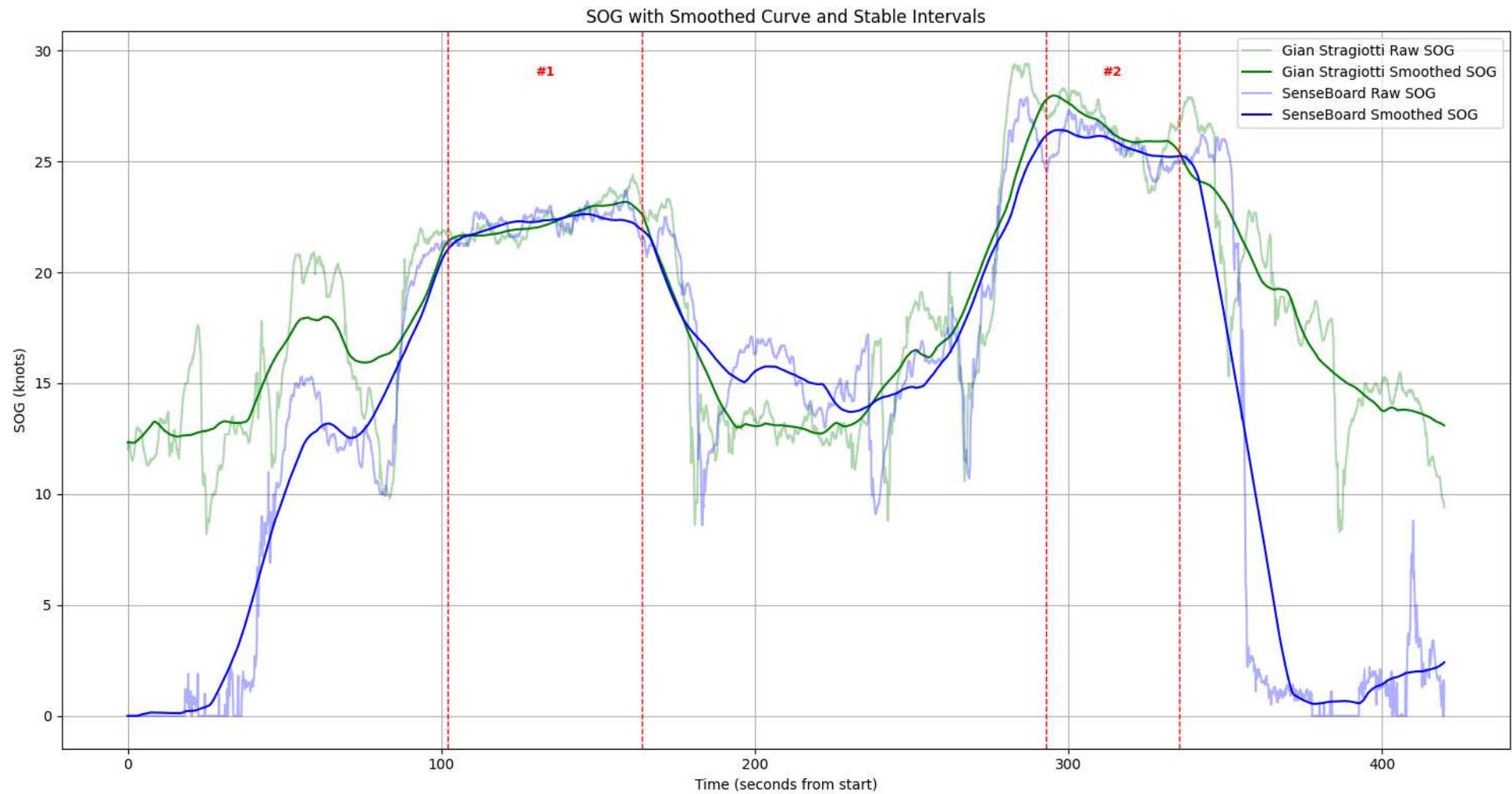
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\07_06\07_06_Run2



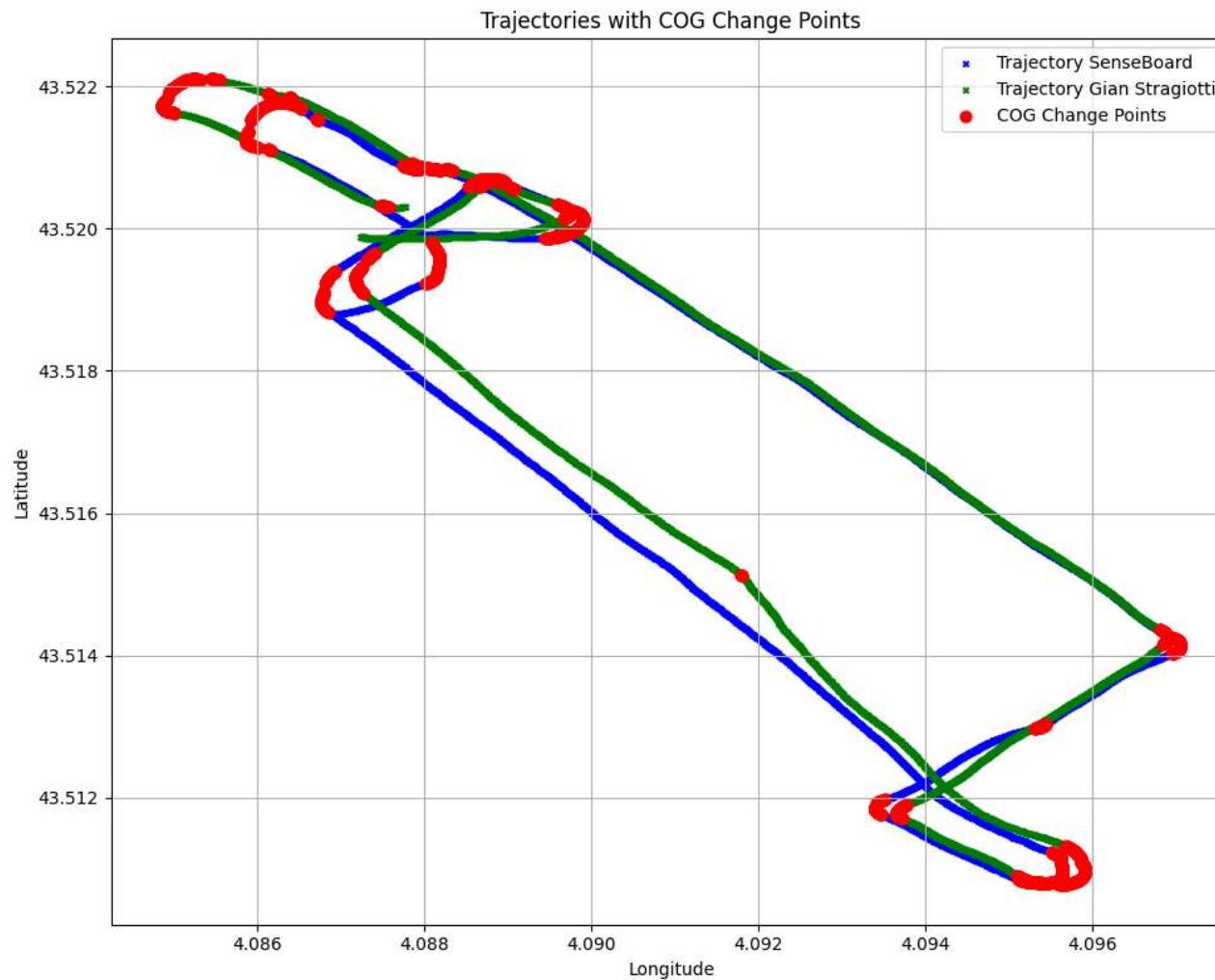


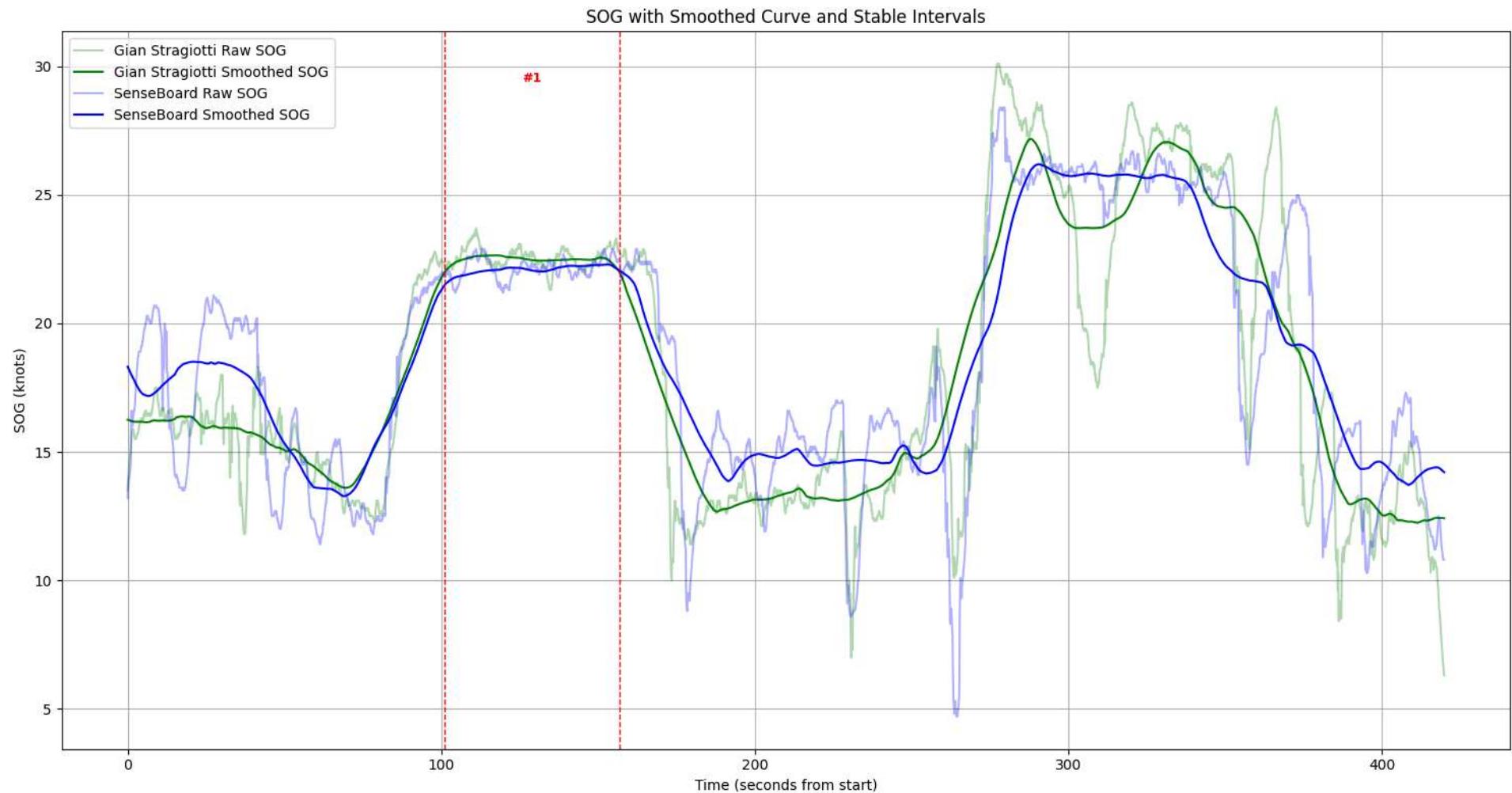
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\07_06\07_06_Run3



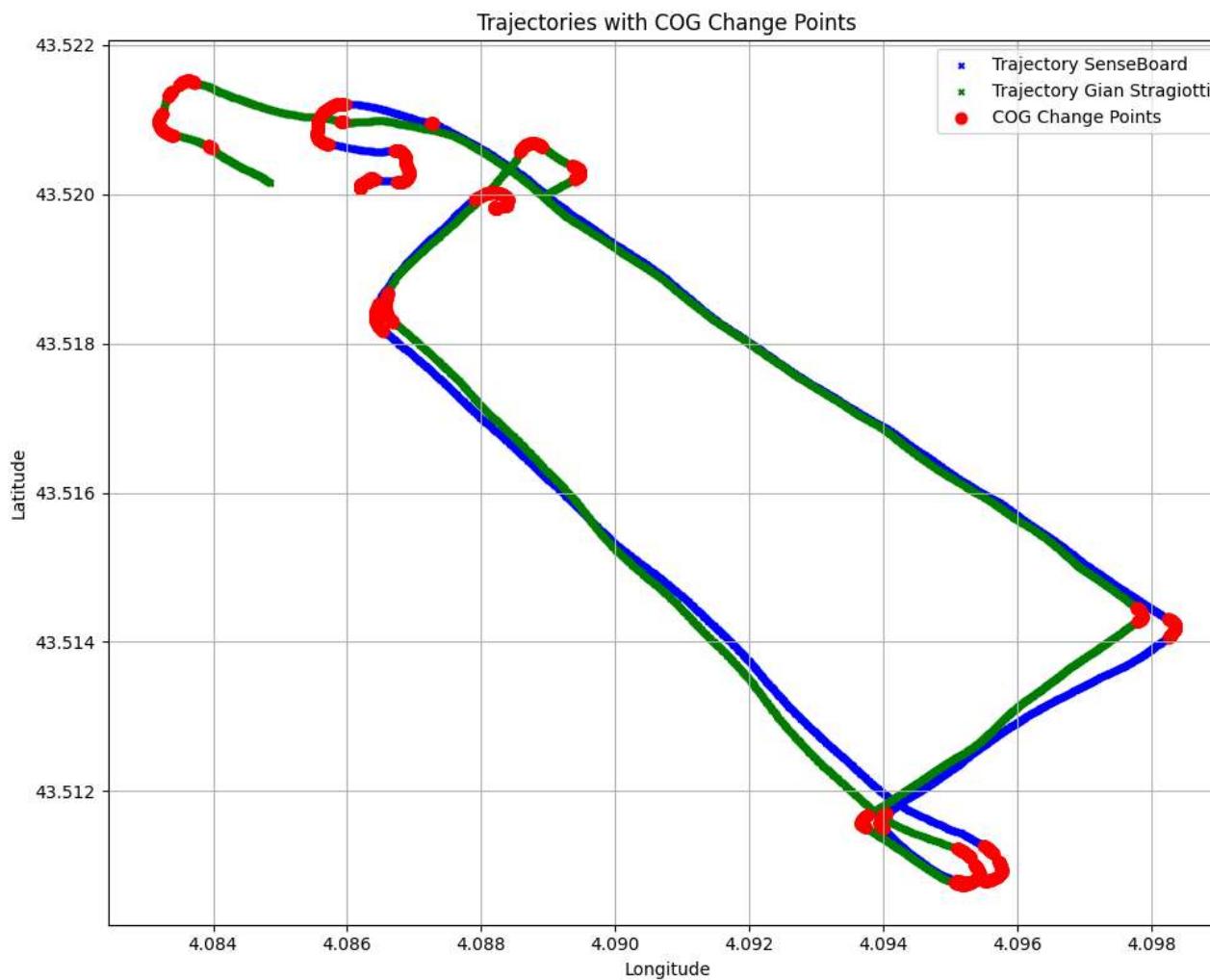


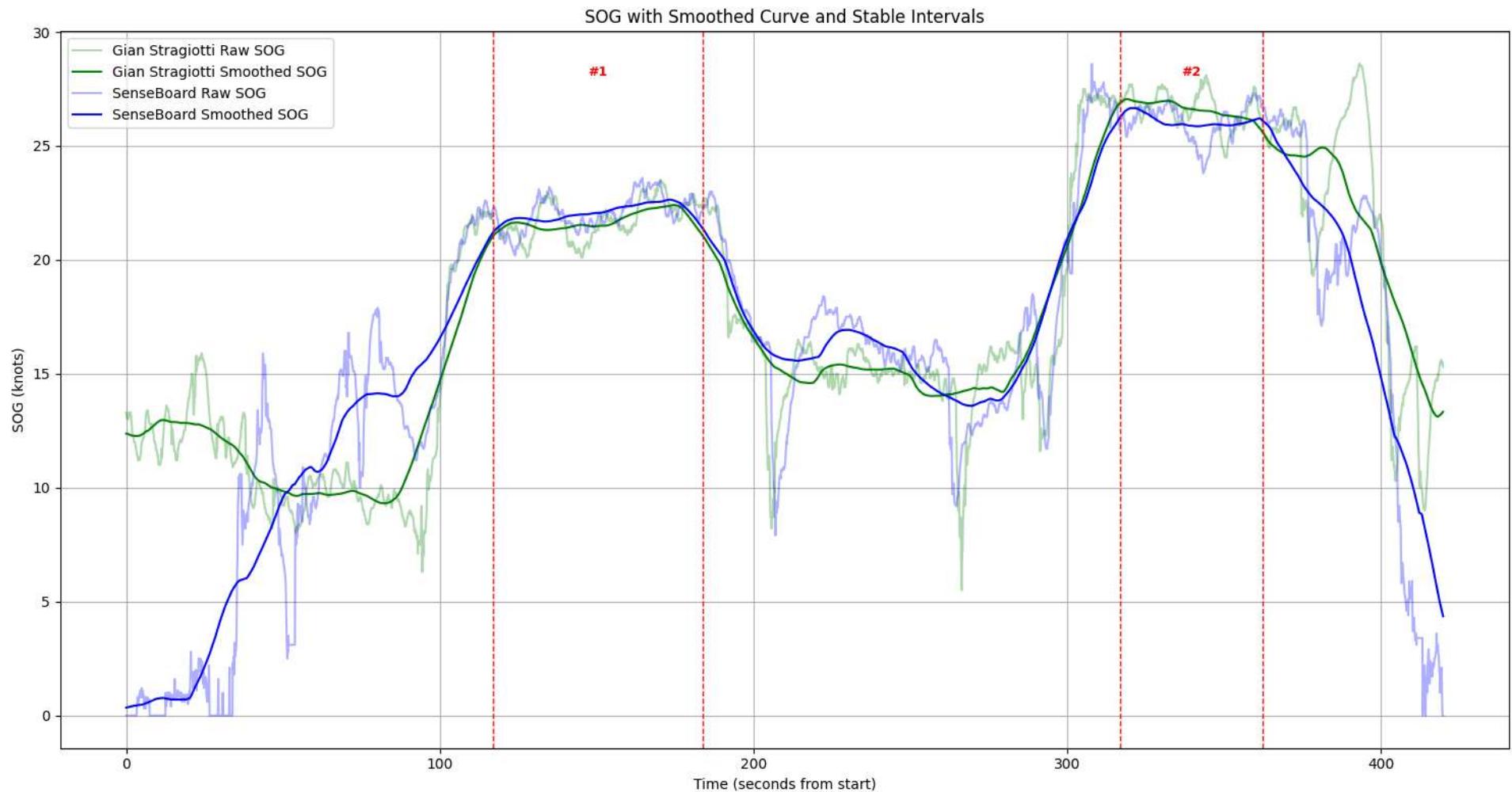
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\07_06\07_06_Run4



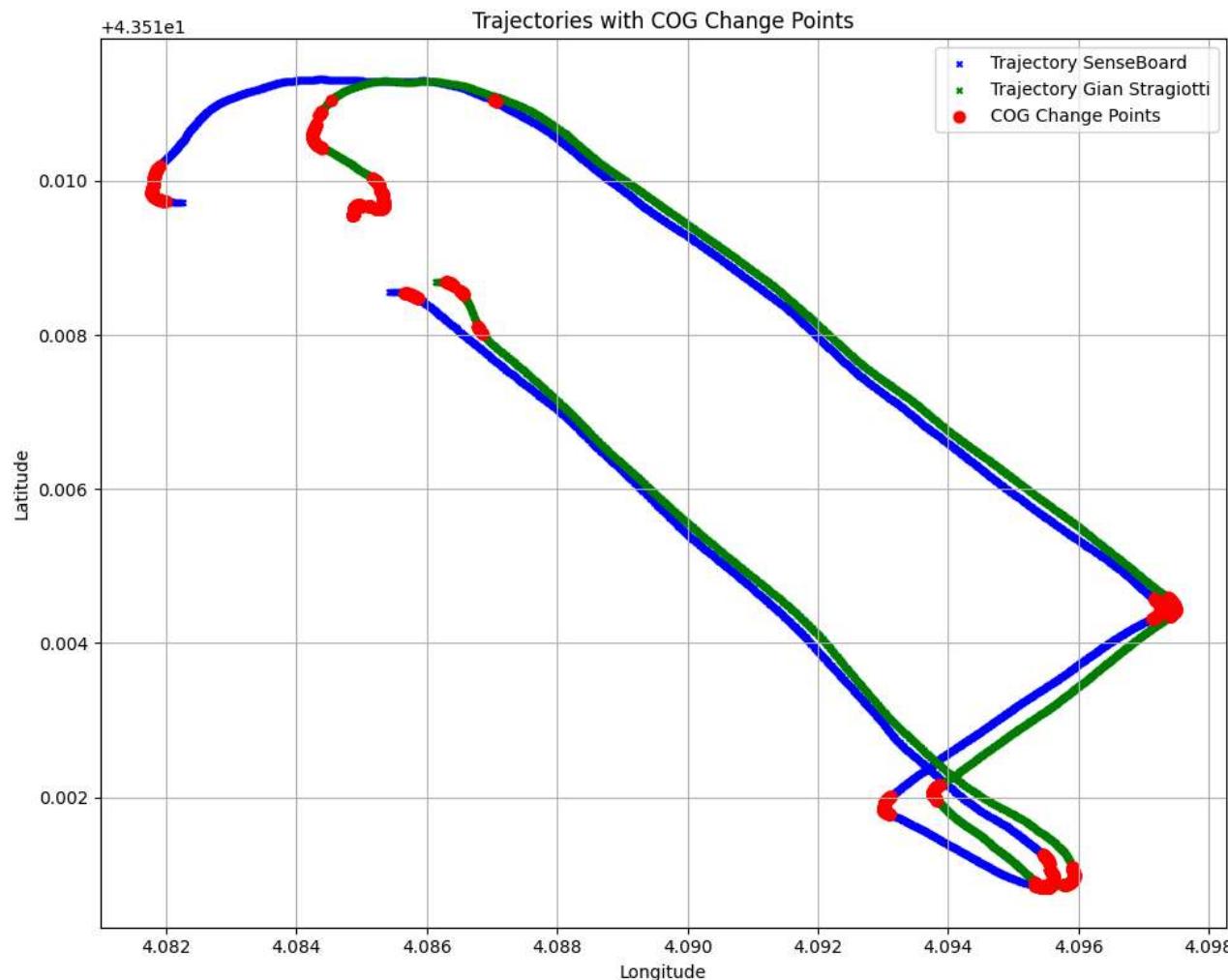


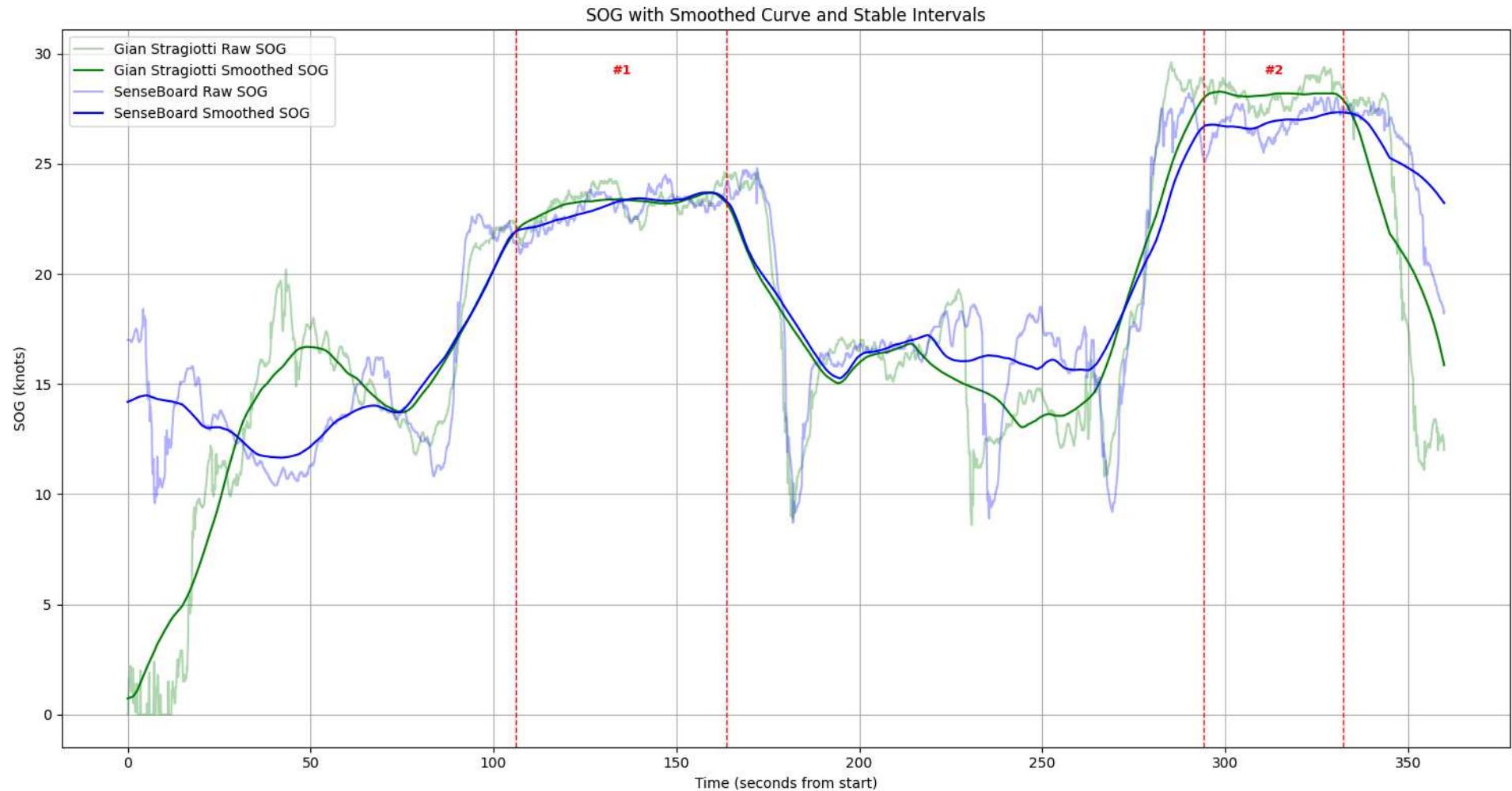
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\07_06\07_06_Run5



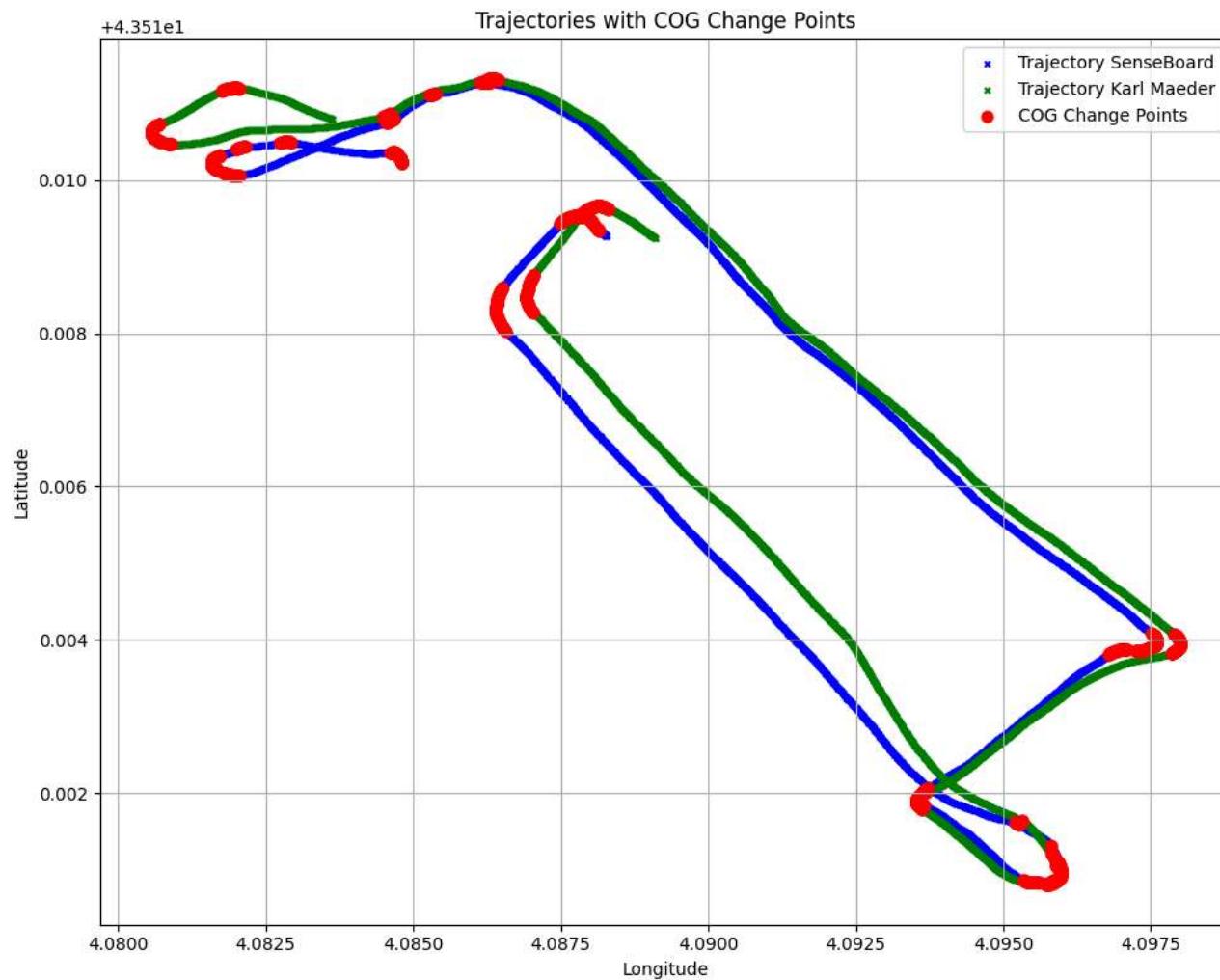


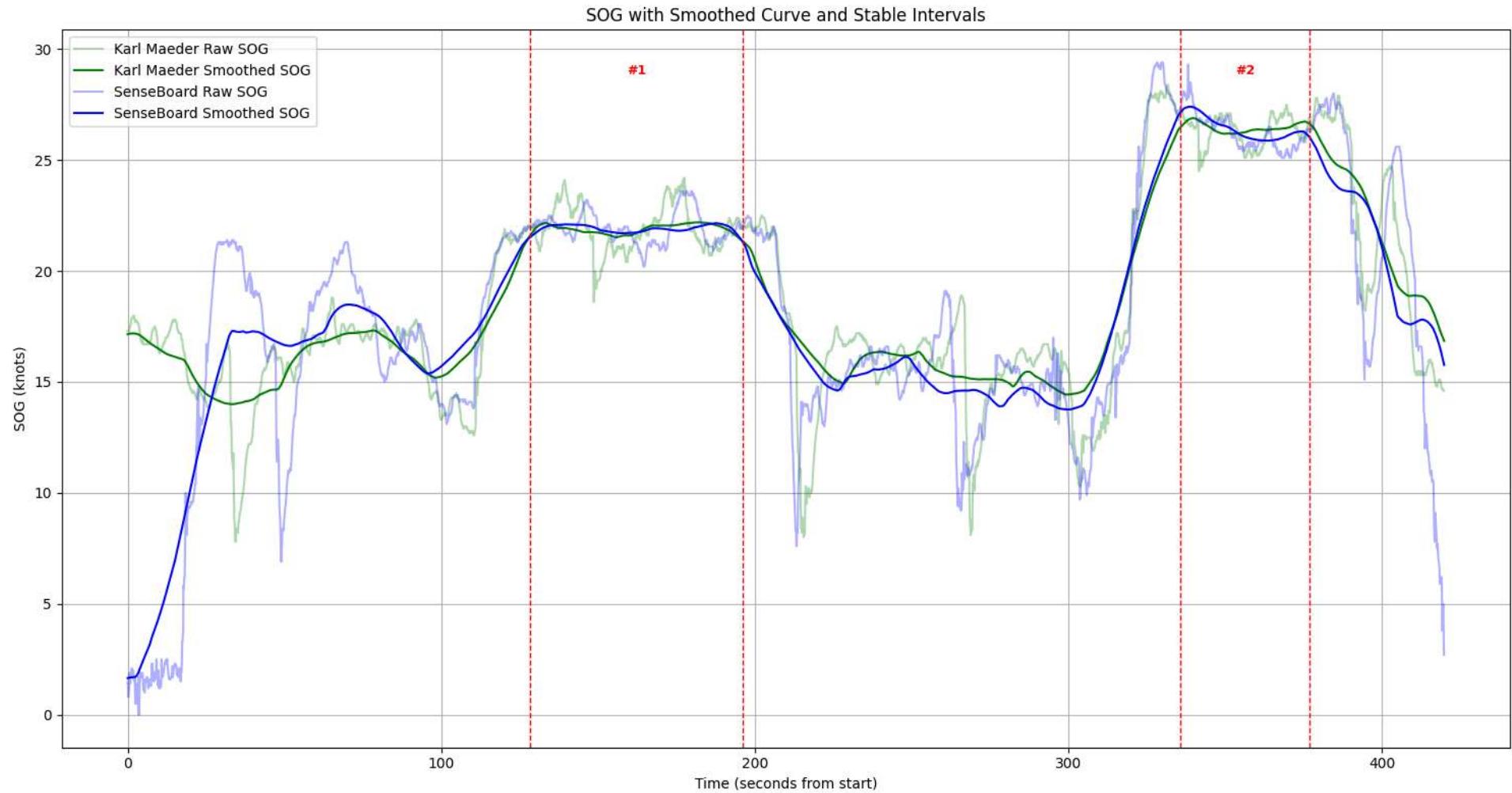
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\07_06\07_06_Run6



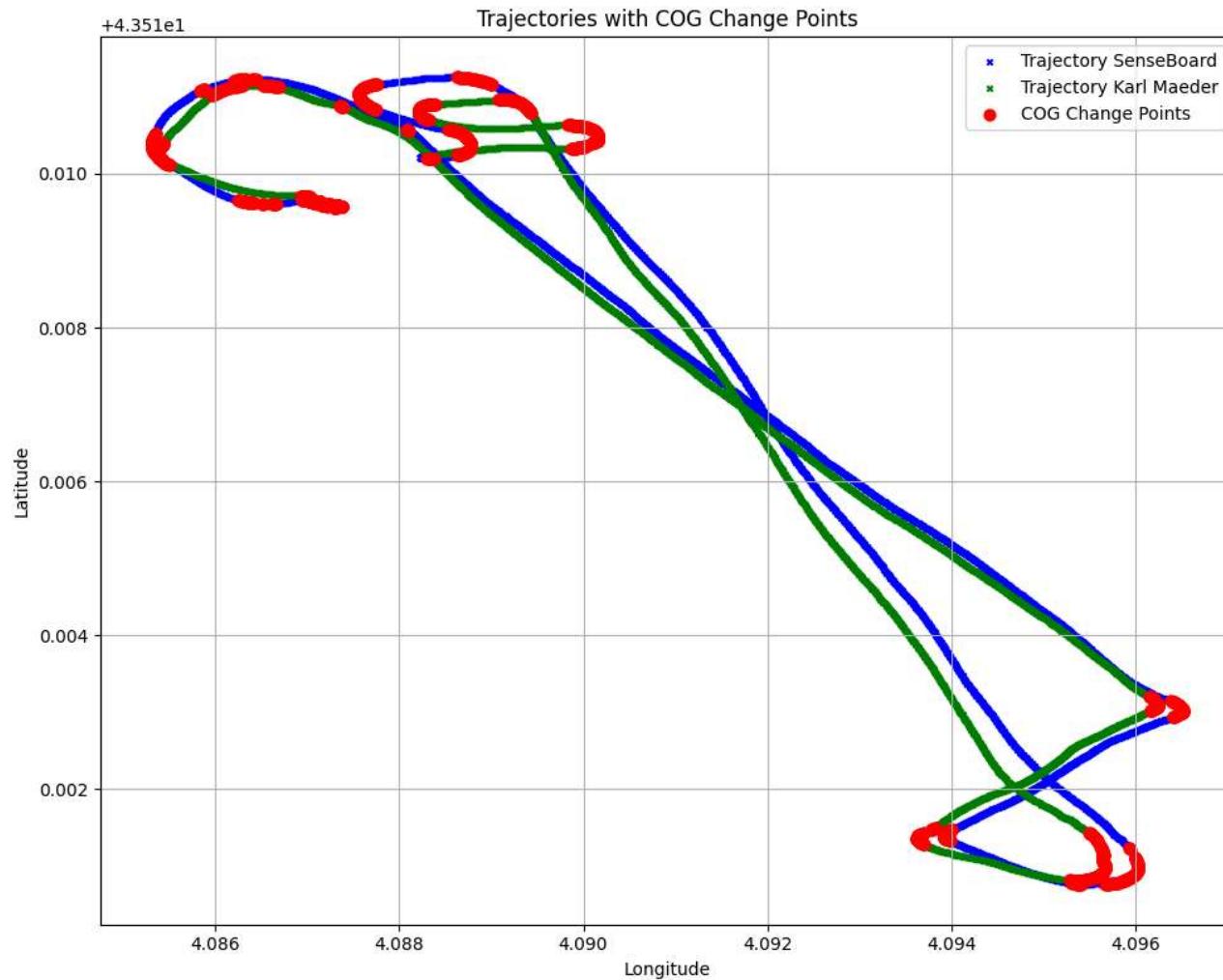


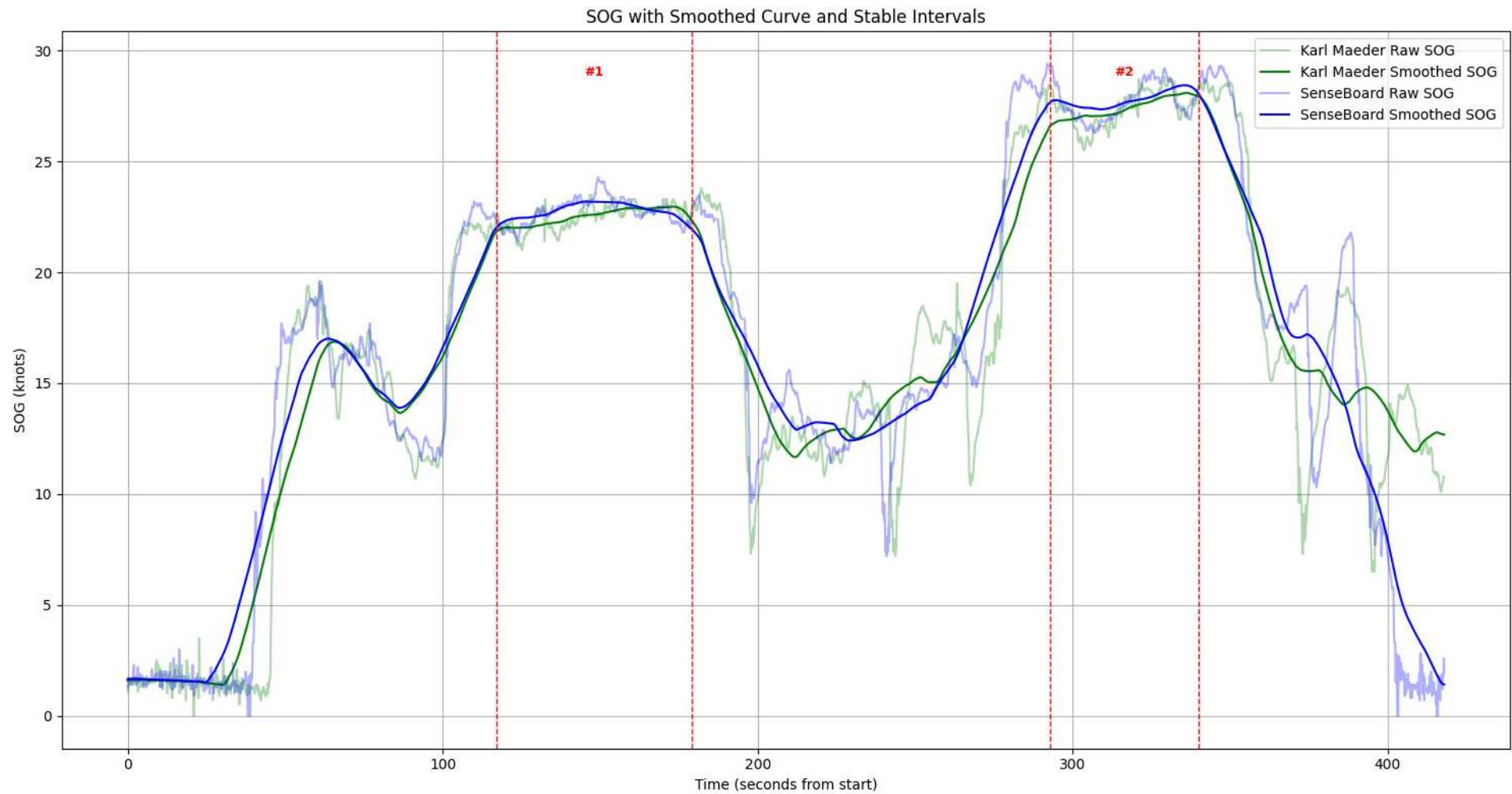
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\07_06\07_06_Run7



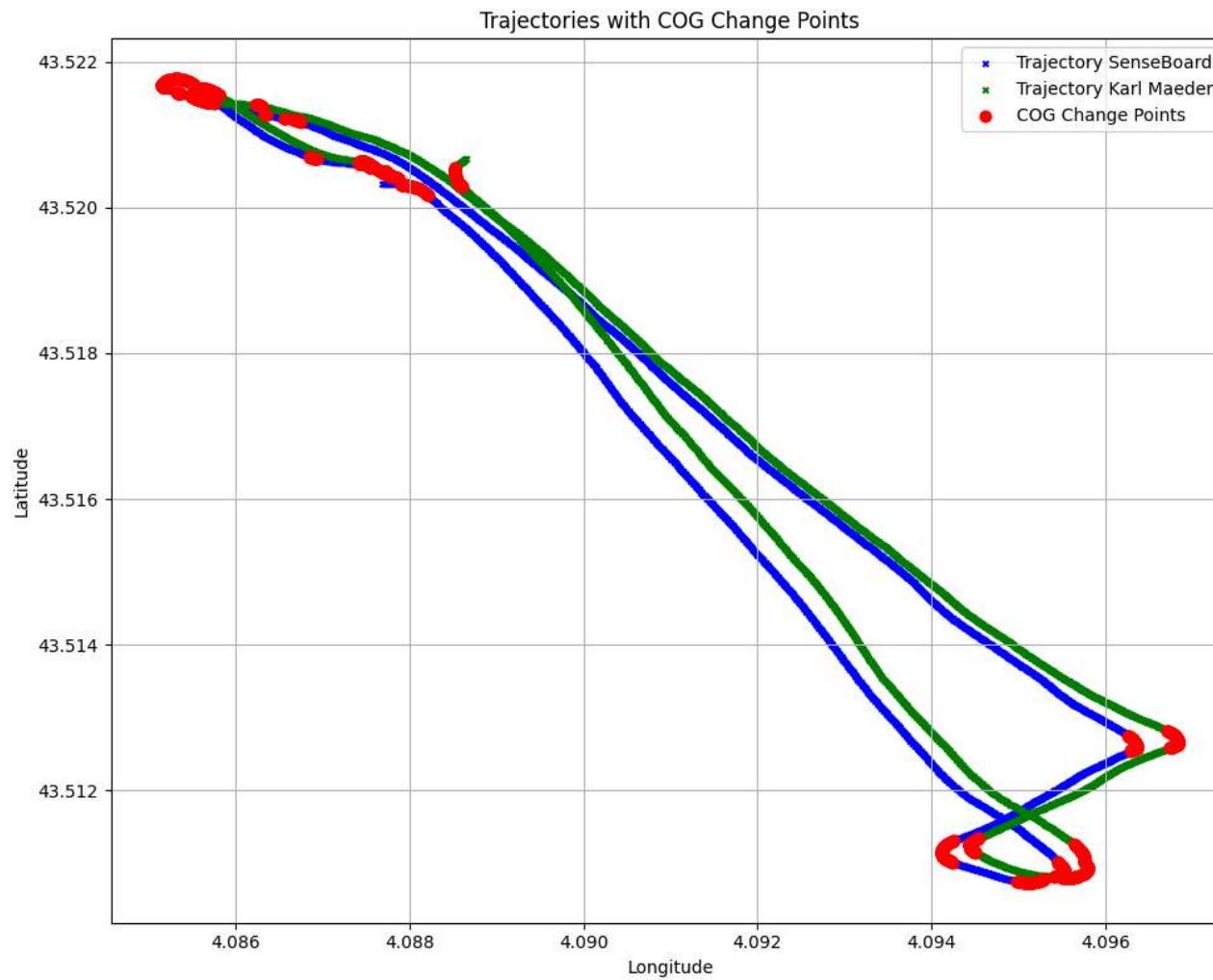


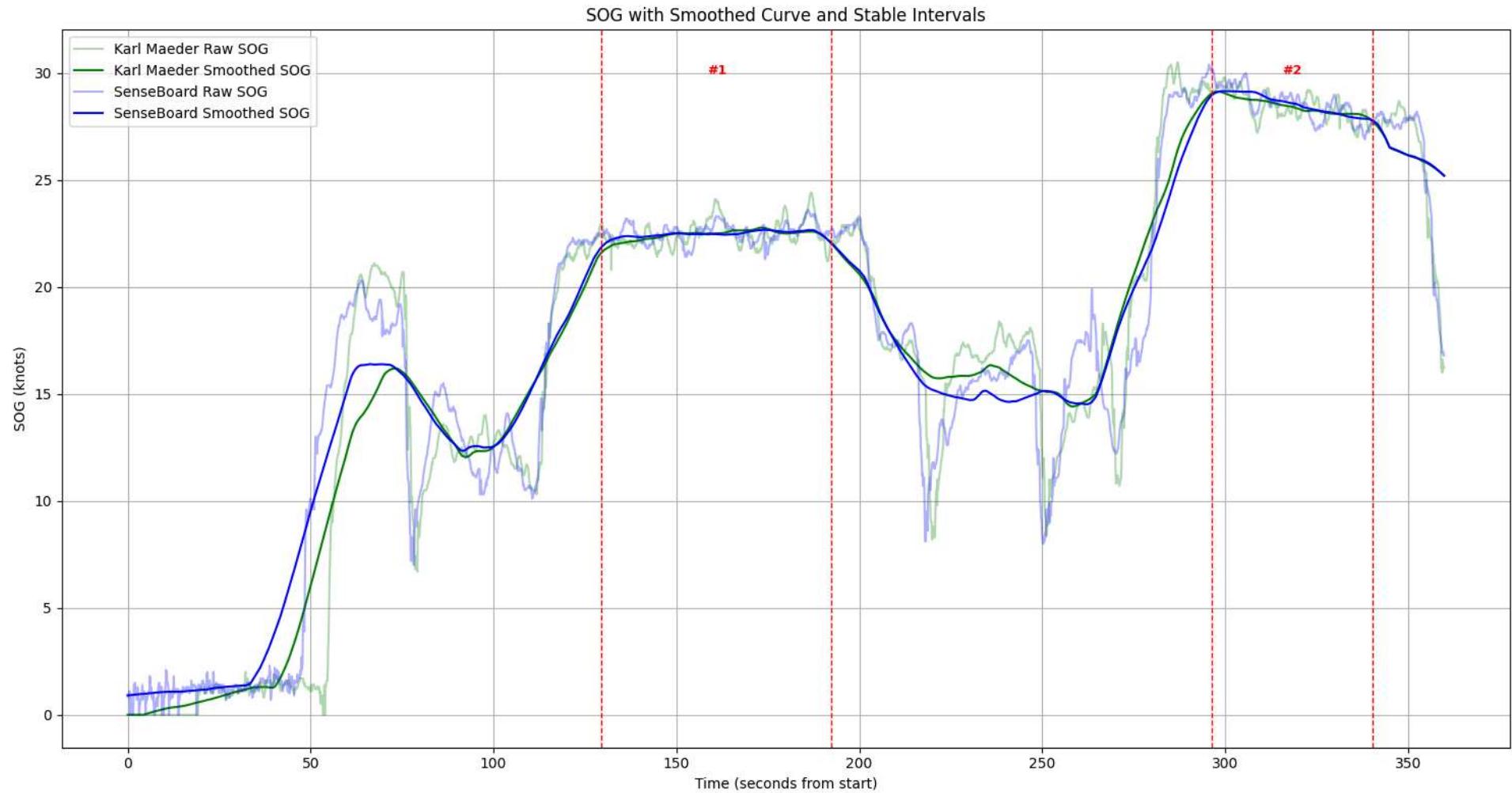
Analyse: Karl Maeder.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\07_06\07_06_Run8



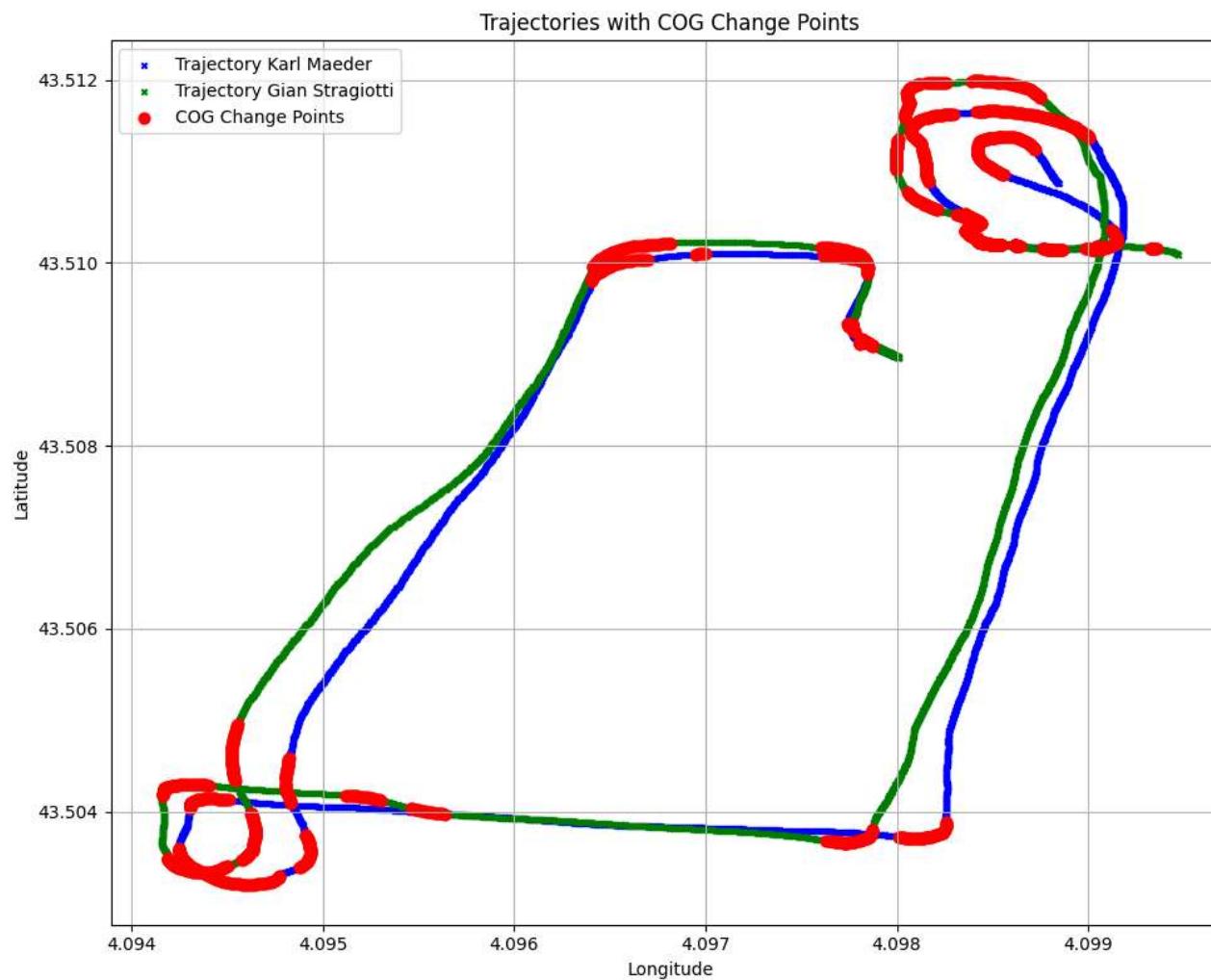


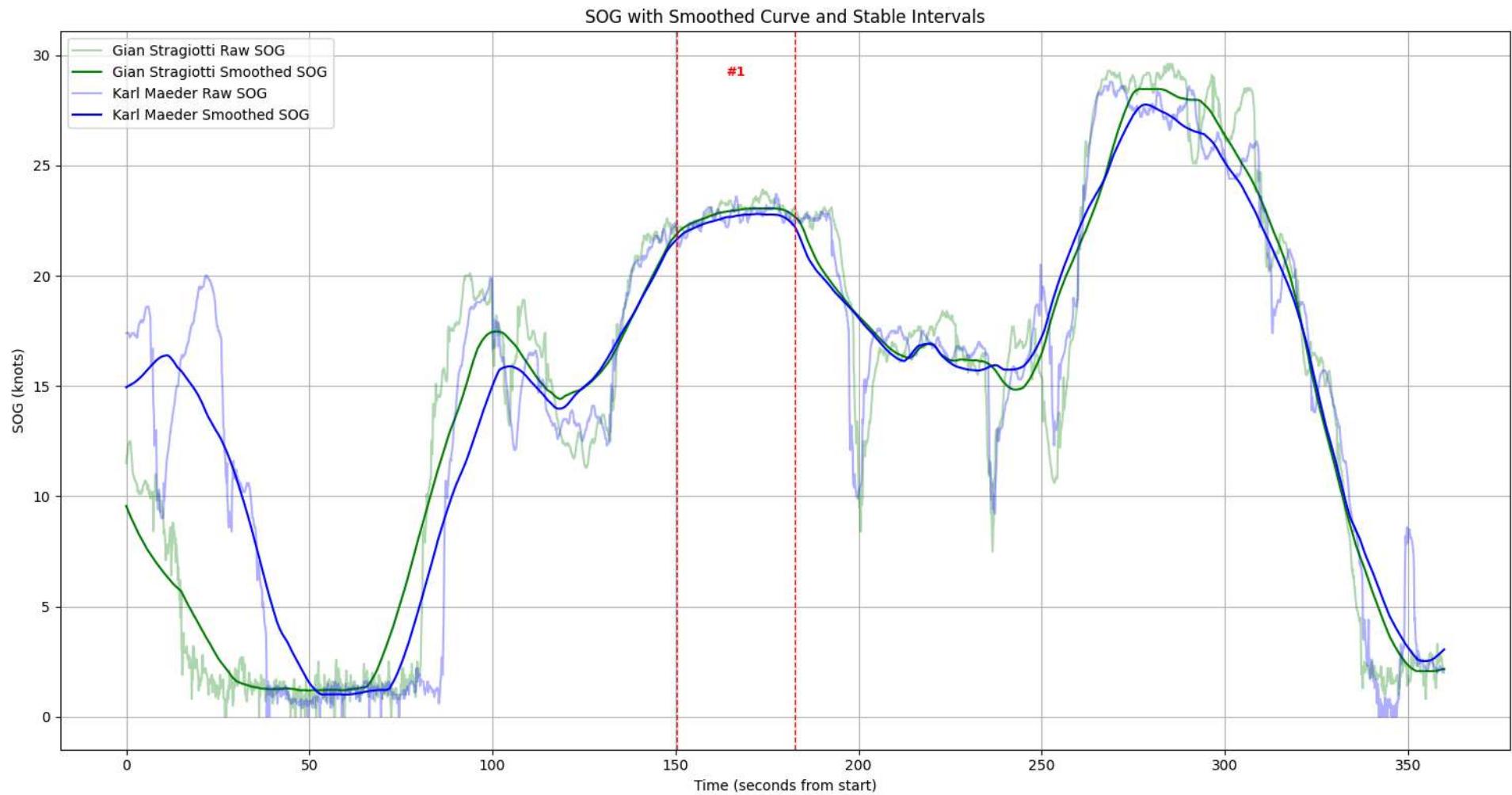
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\07_06\07_06_Run9



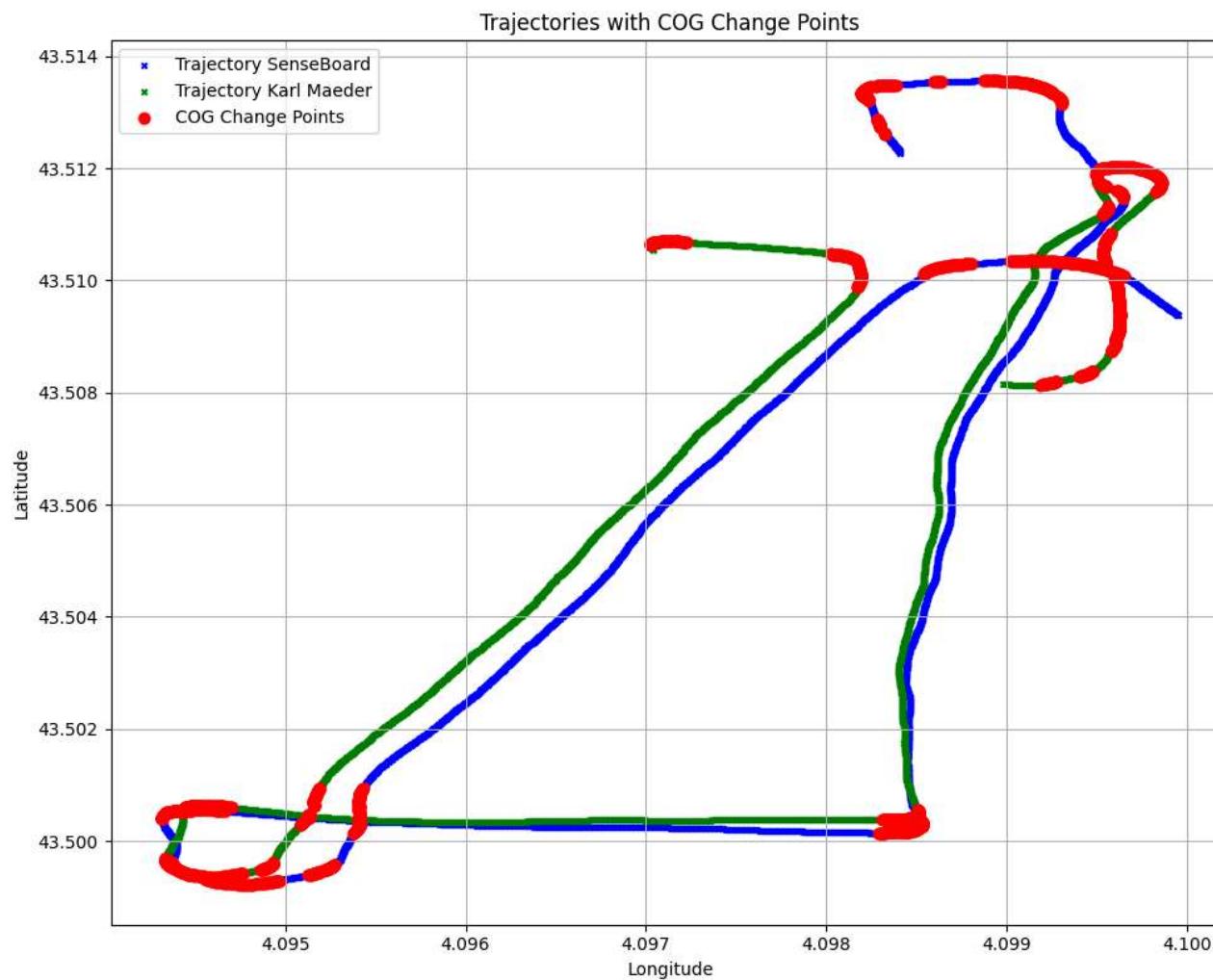


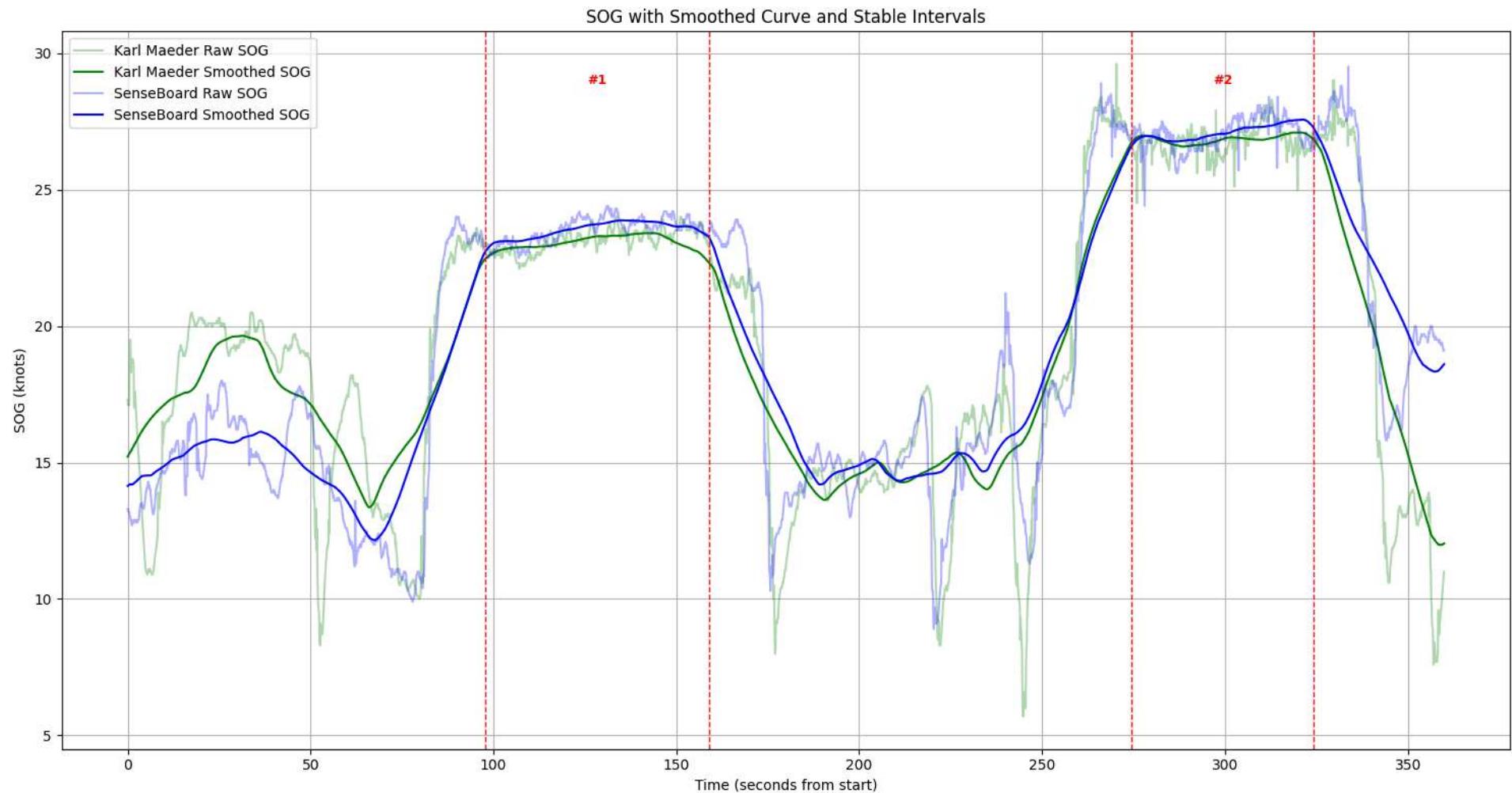
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\09_06\09_06_Run1



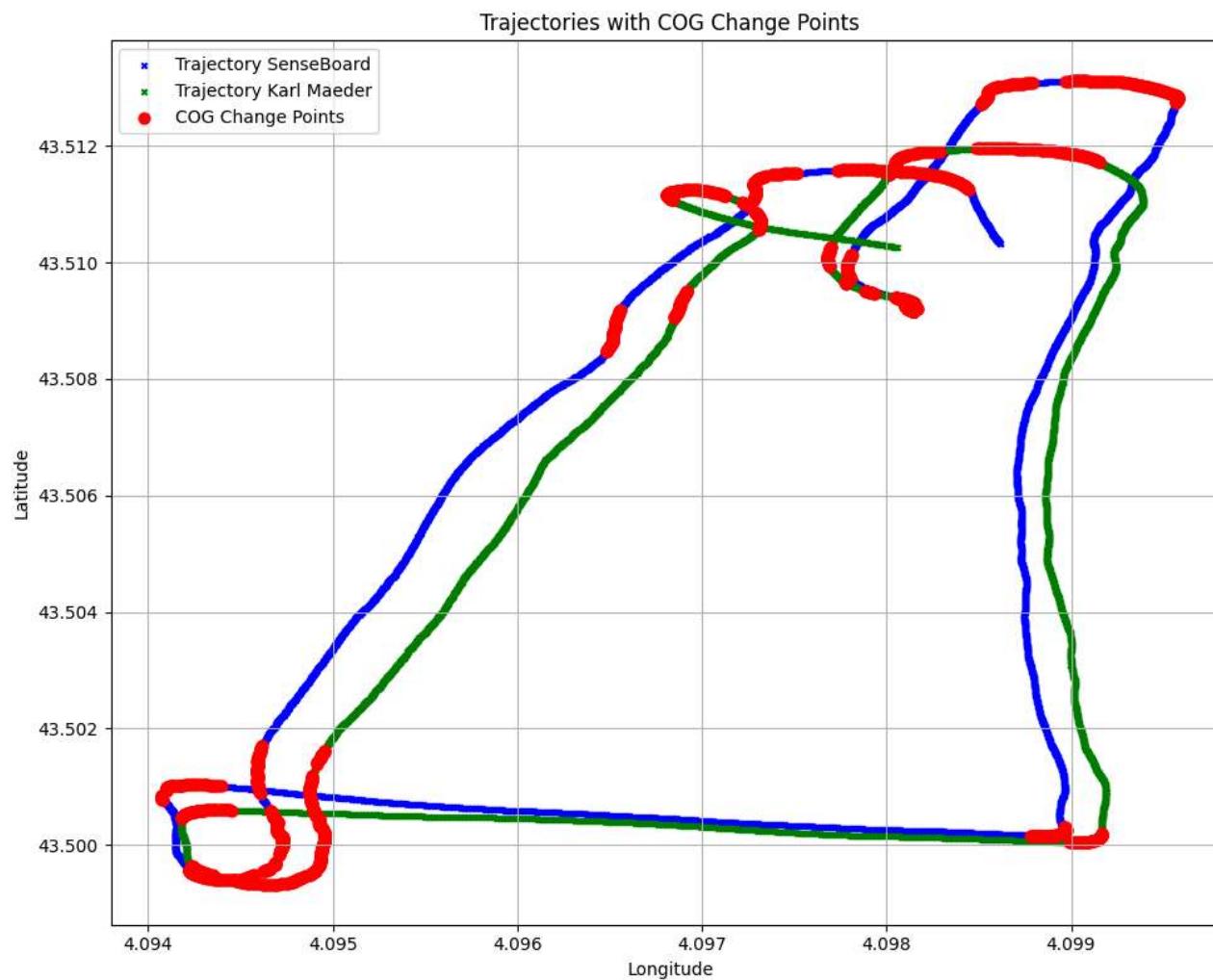


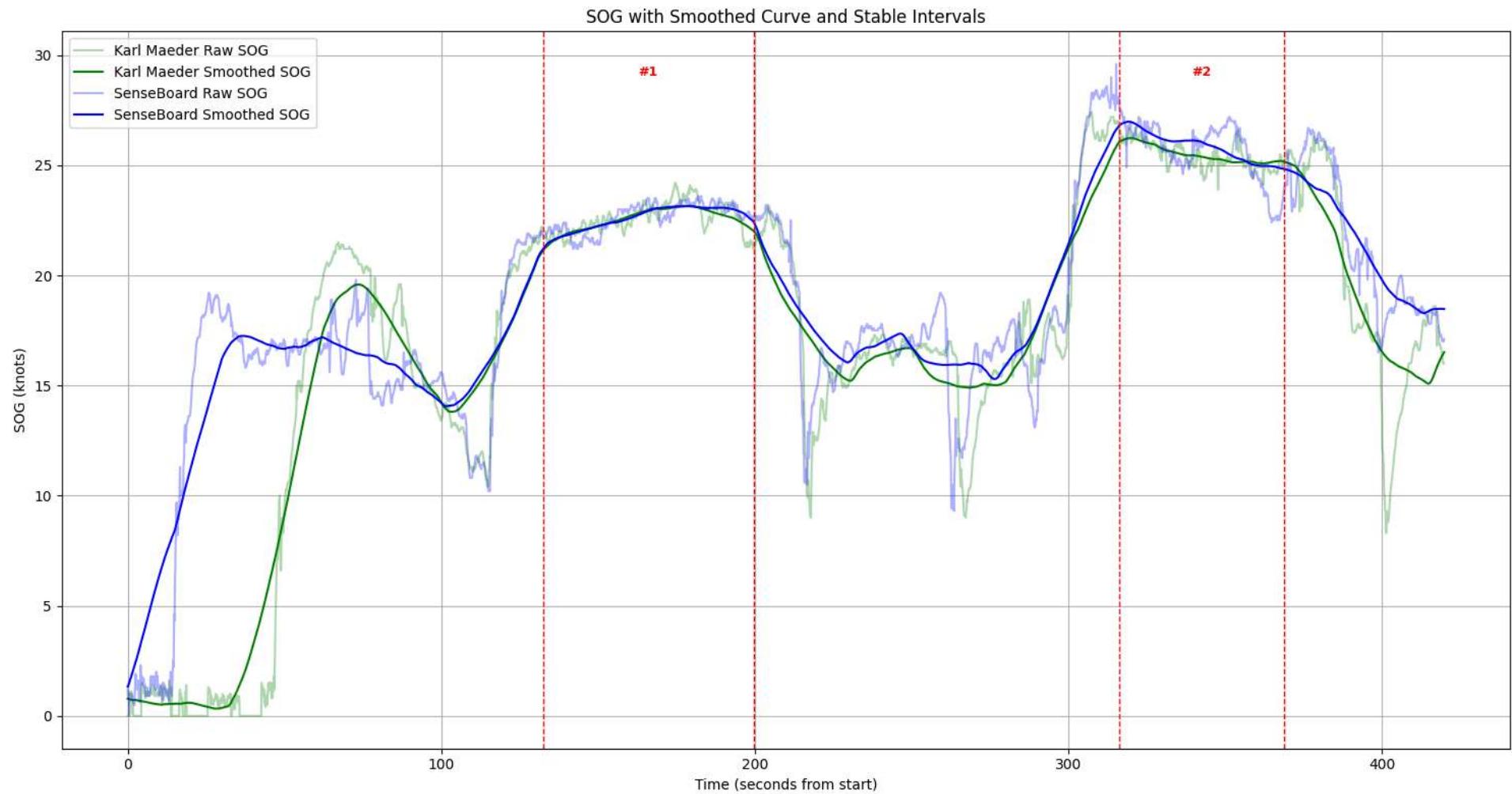
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\09_06\09_06_Run10



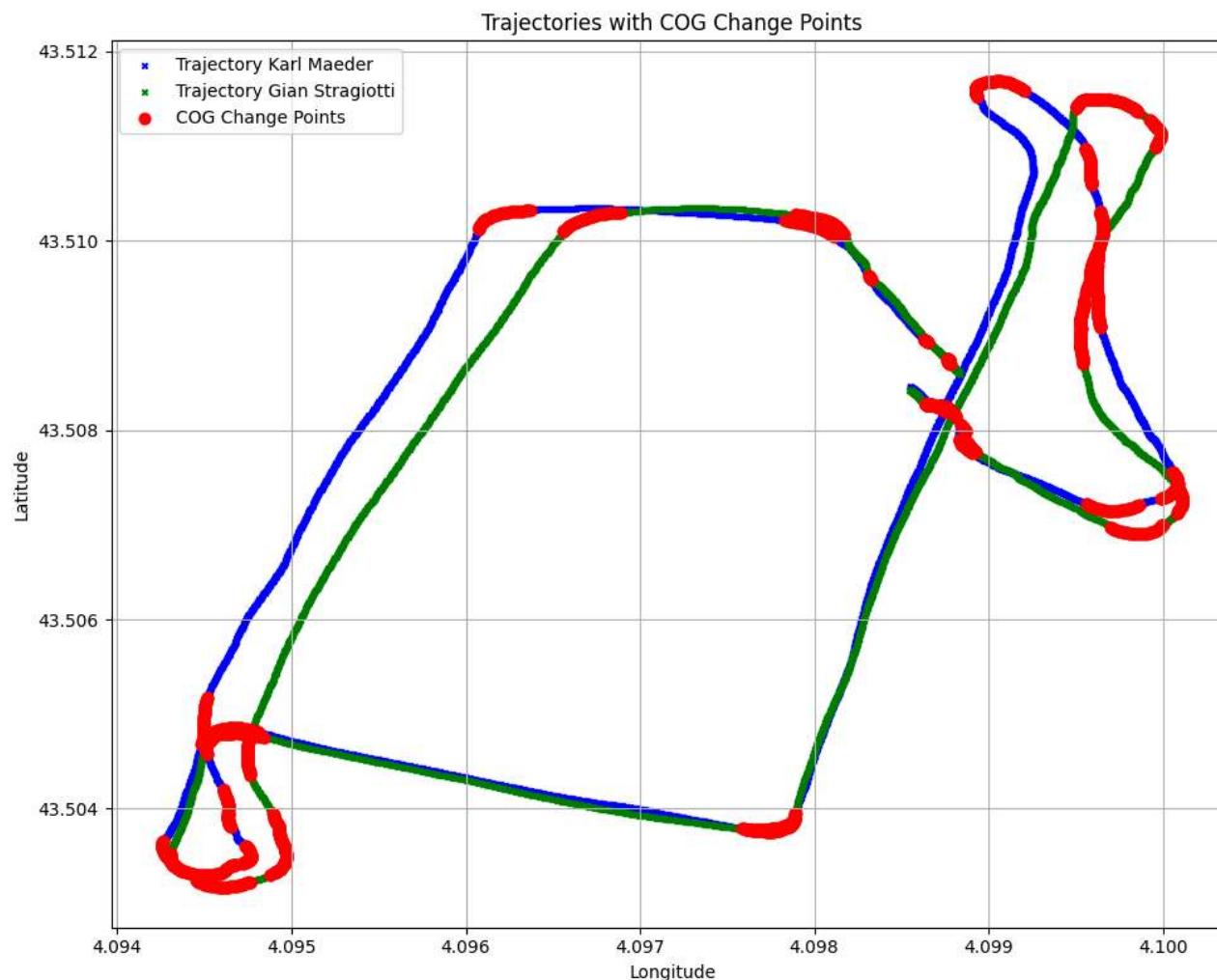


Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\09_06\09_06_Run11

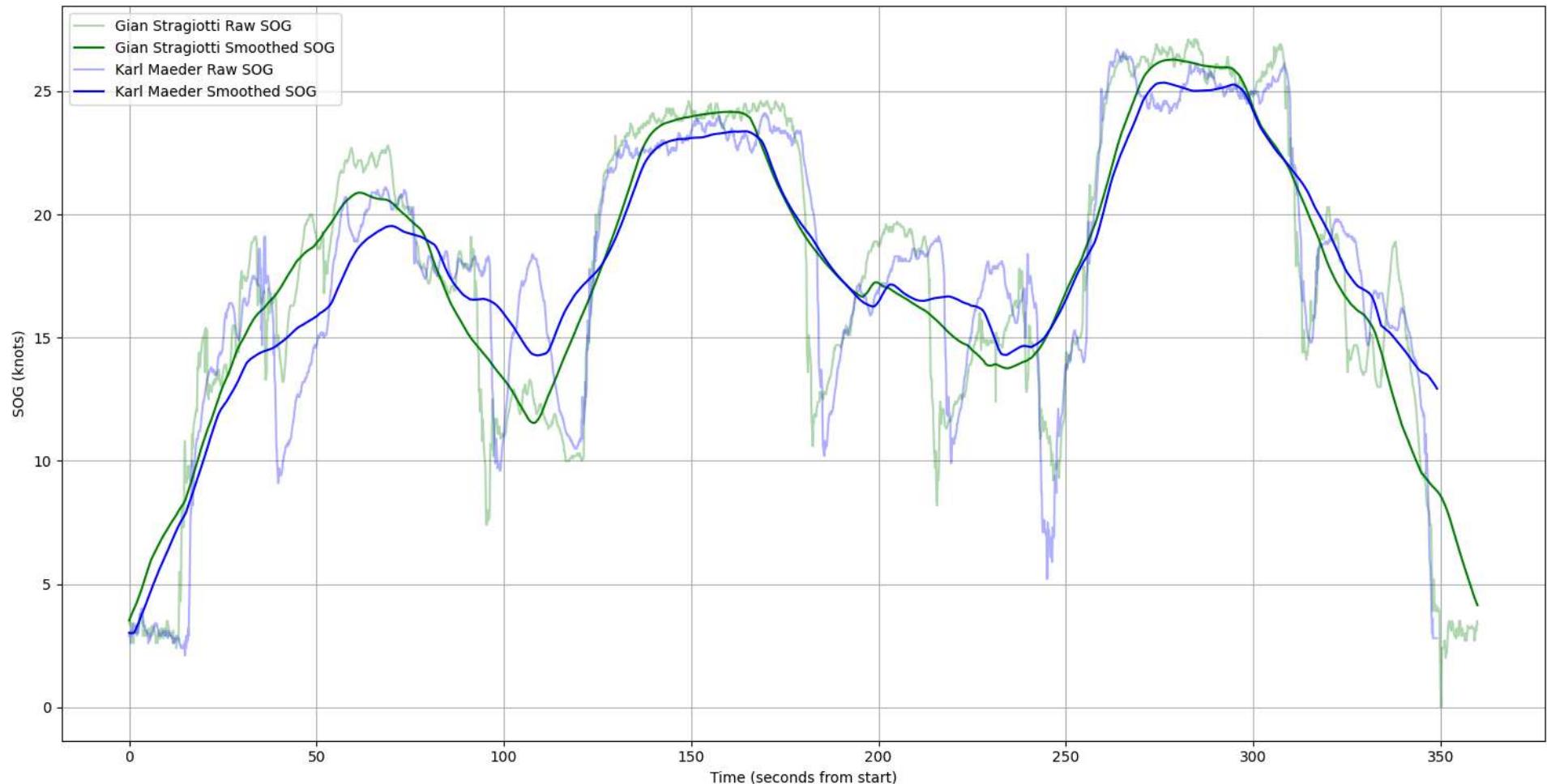




Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\09_06\09_06_Run2

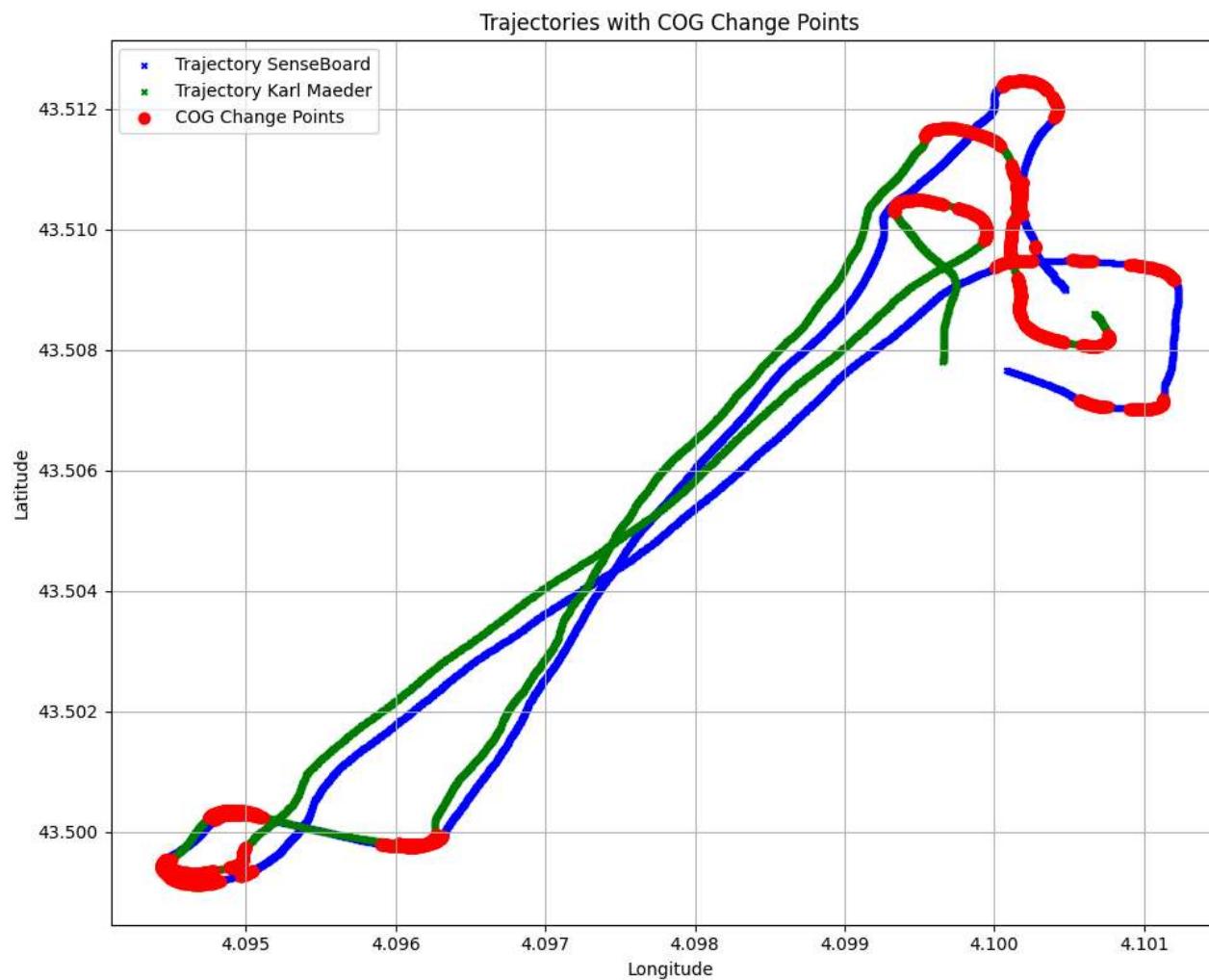


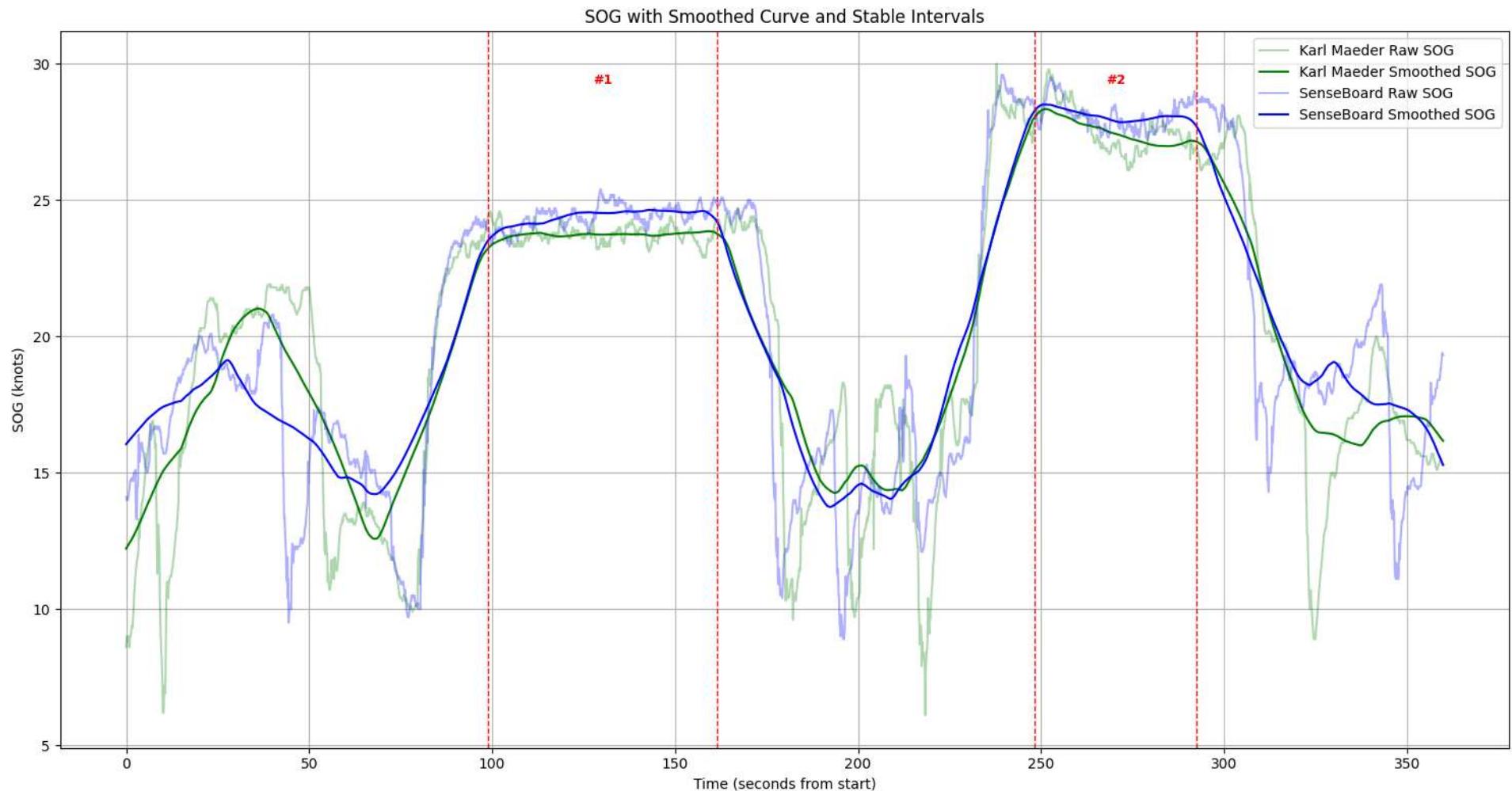
SOG with Smoothed Curve and Stable Intervals



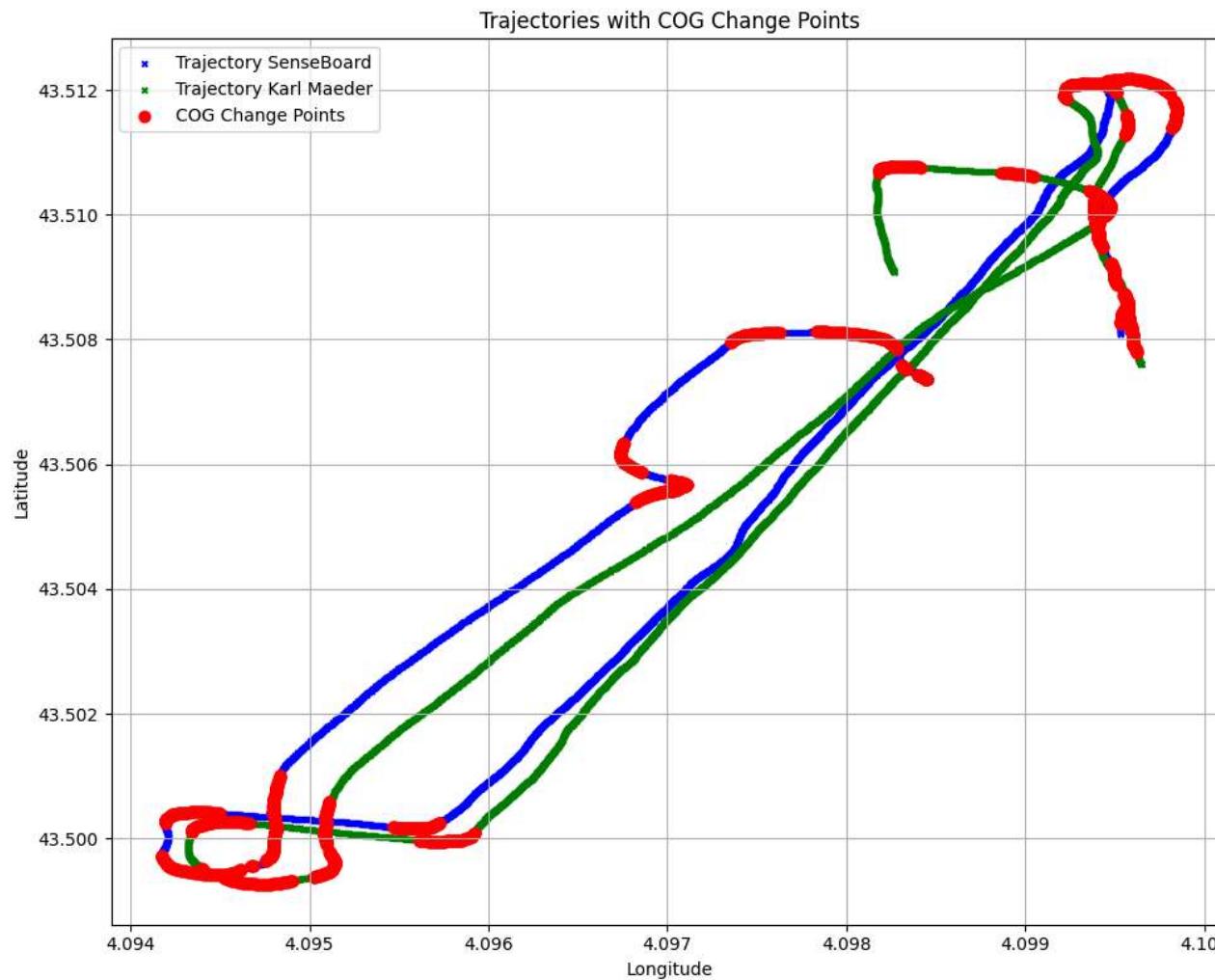
Ignoré: ../Data_Sailnjord/Straight_lines\09_06\09_06_Run3 (attendu 2 CSV, trouvé 1)

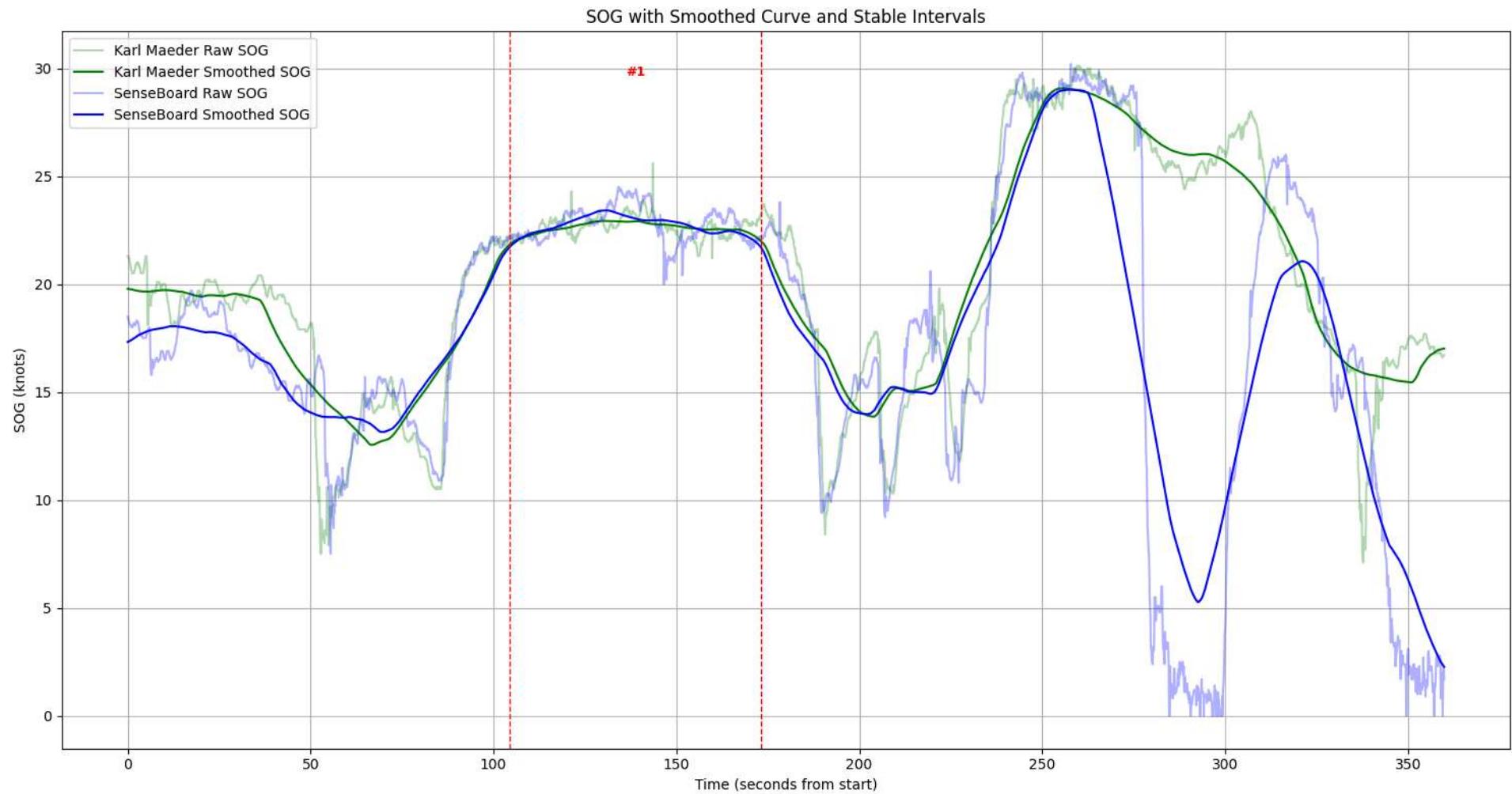
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\09_06\09_06_Run4



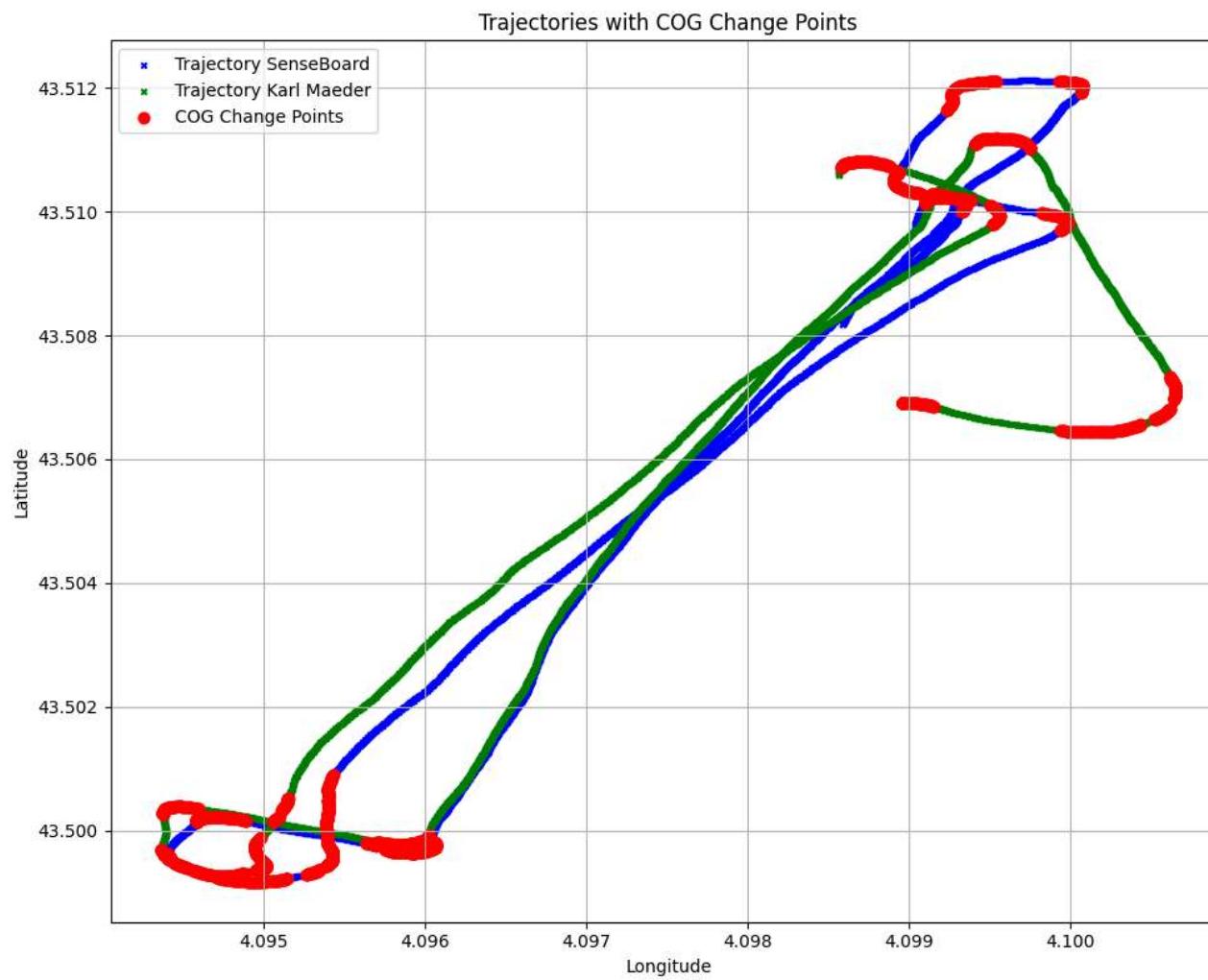


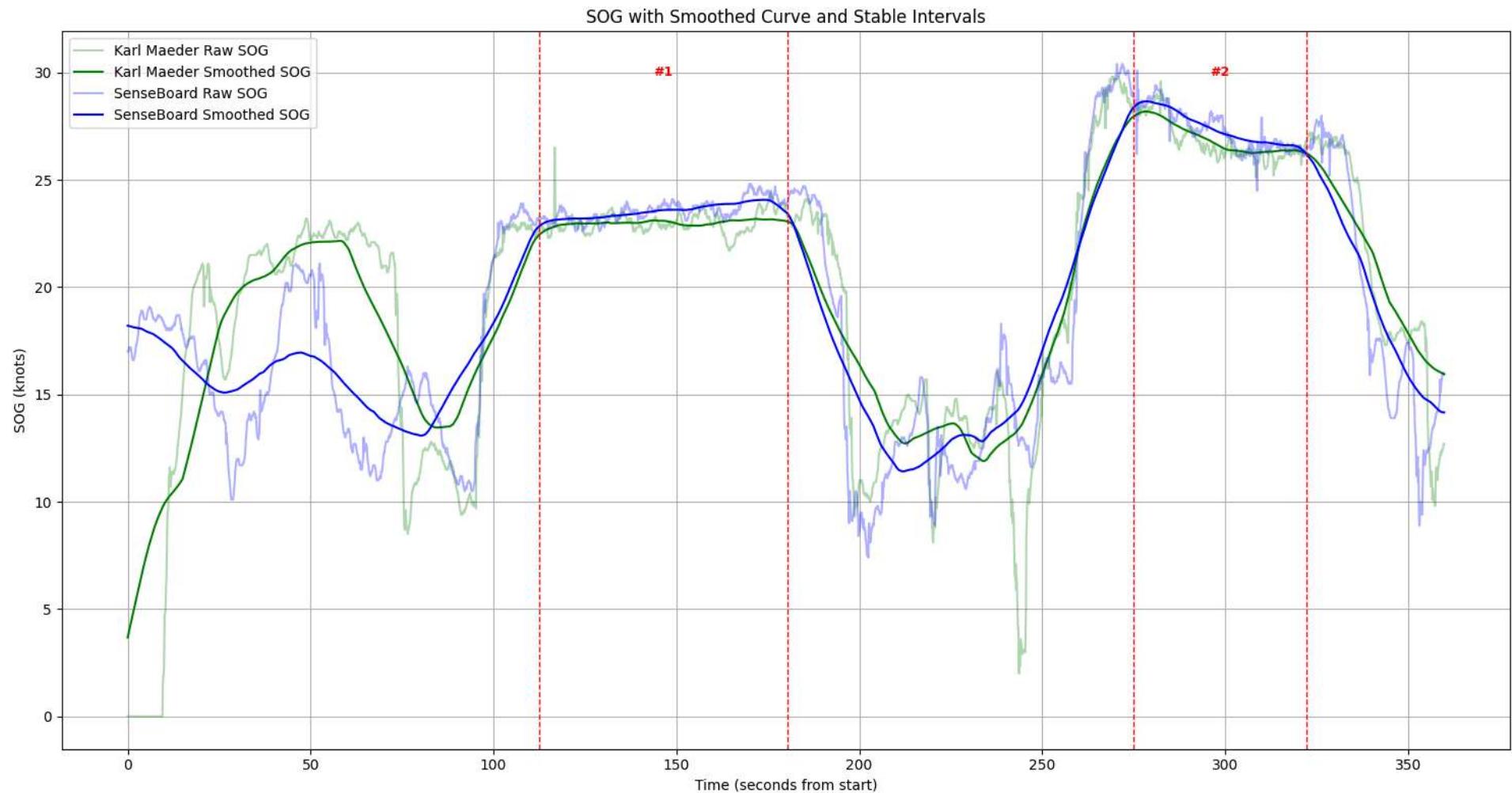
Analyse: Karl Maeder.csv et SenseBoard.csv dans .../Data_Sailnjord/Straight_lines\09_06\09_06_Run5



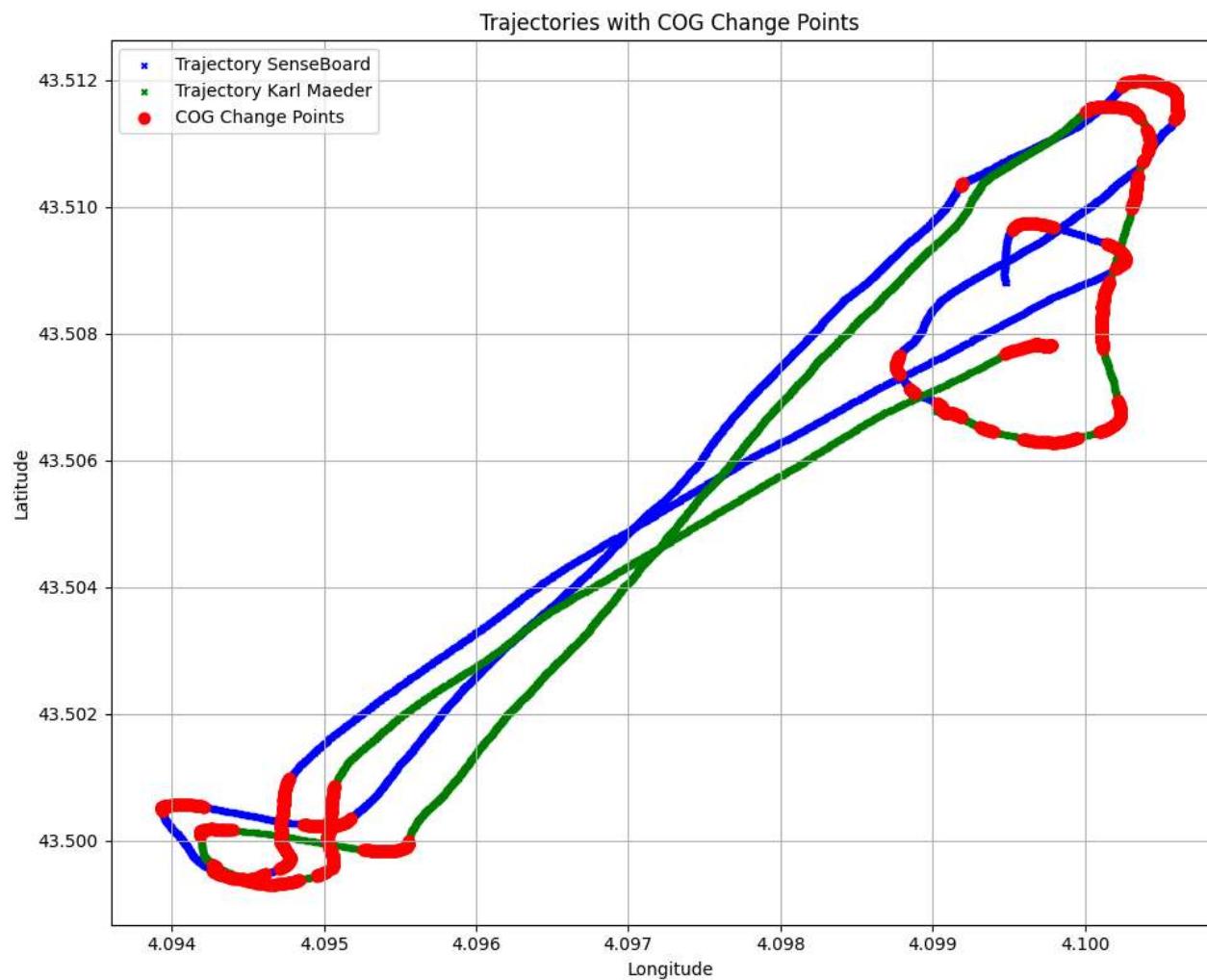


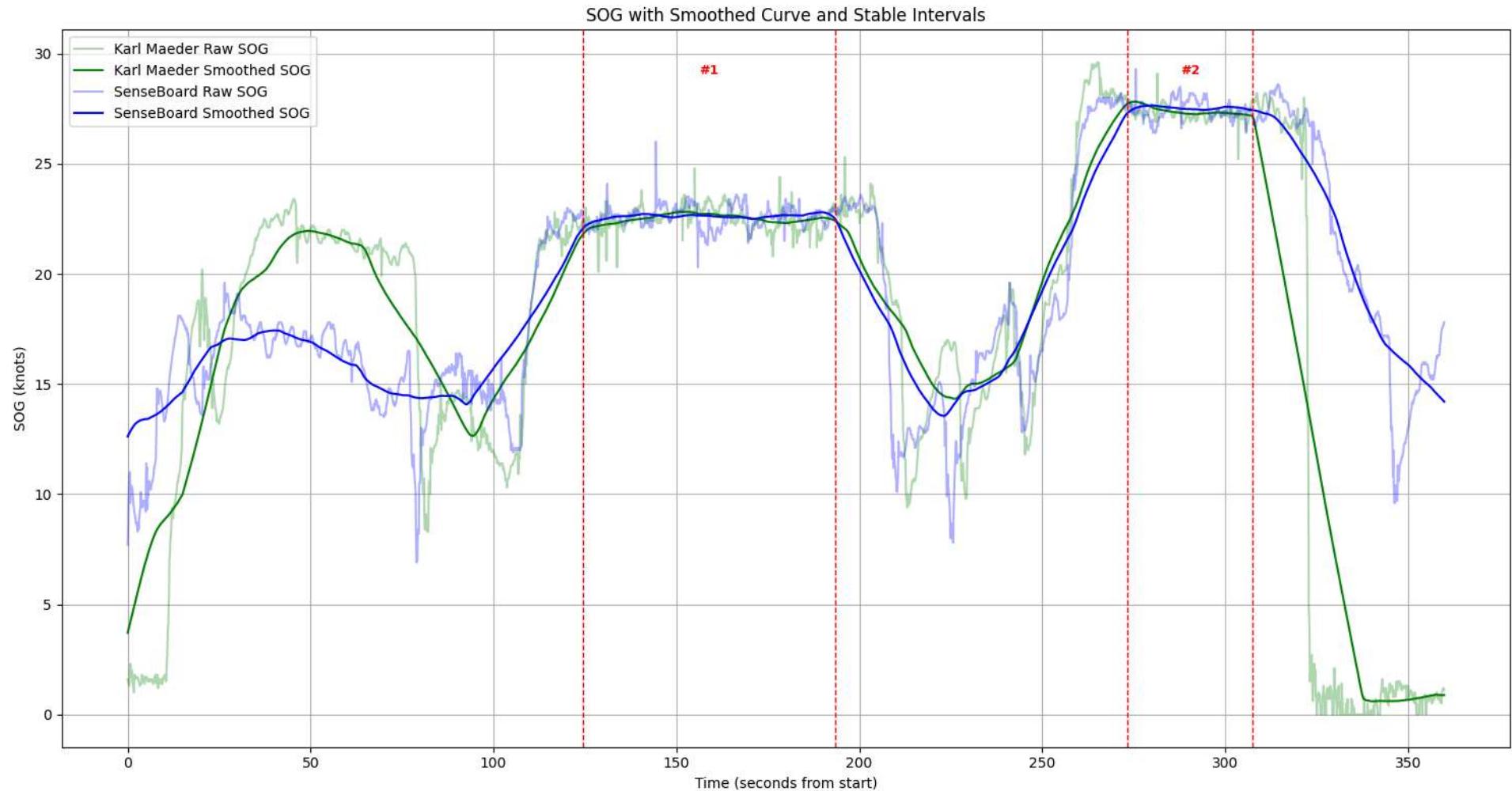
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\09_06\09_06_Run6



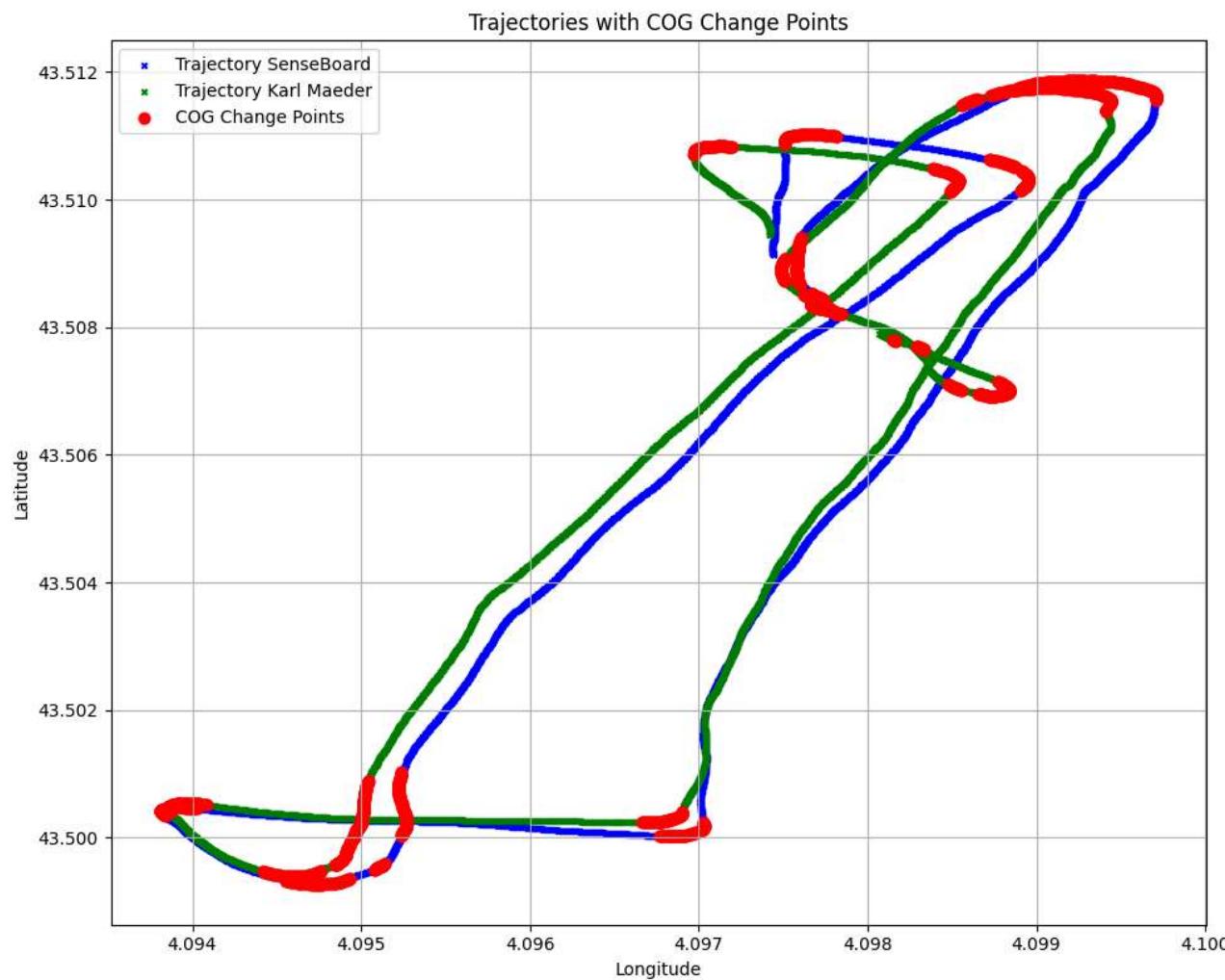


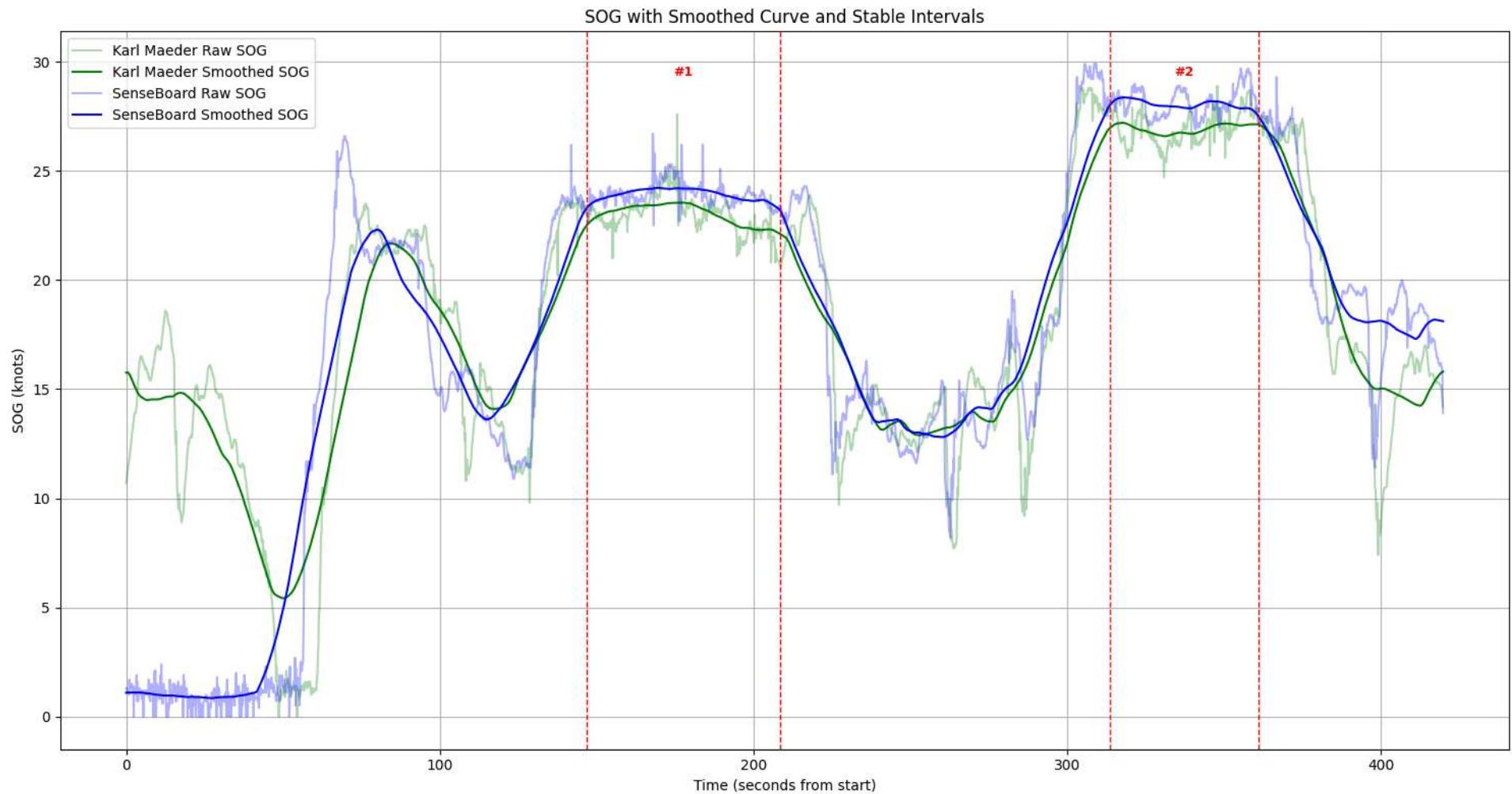
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\09_06\09_06_Run7



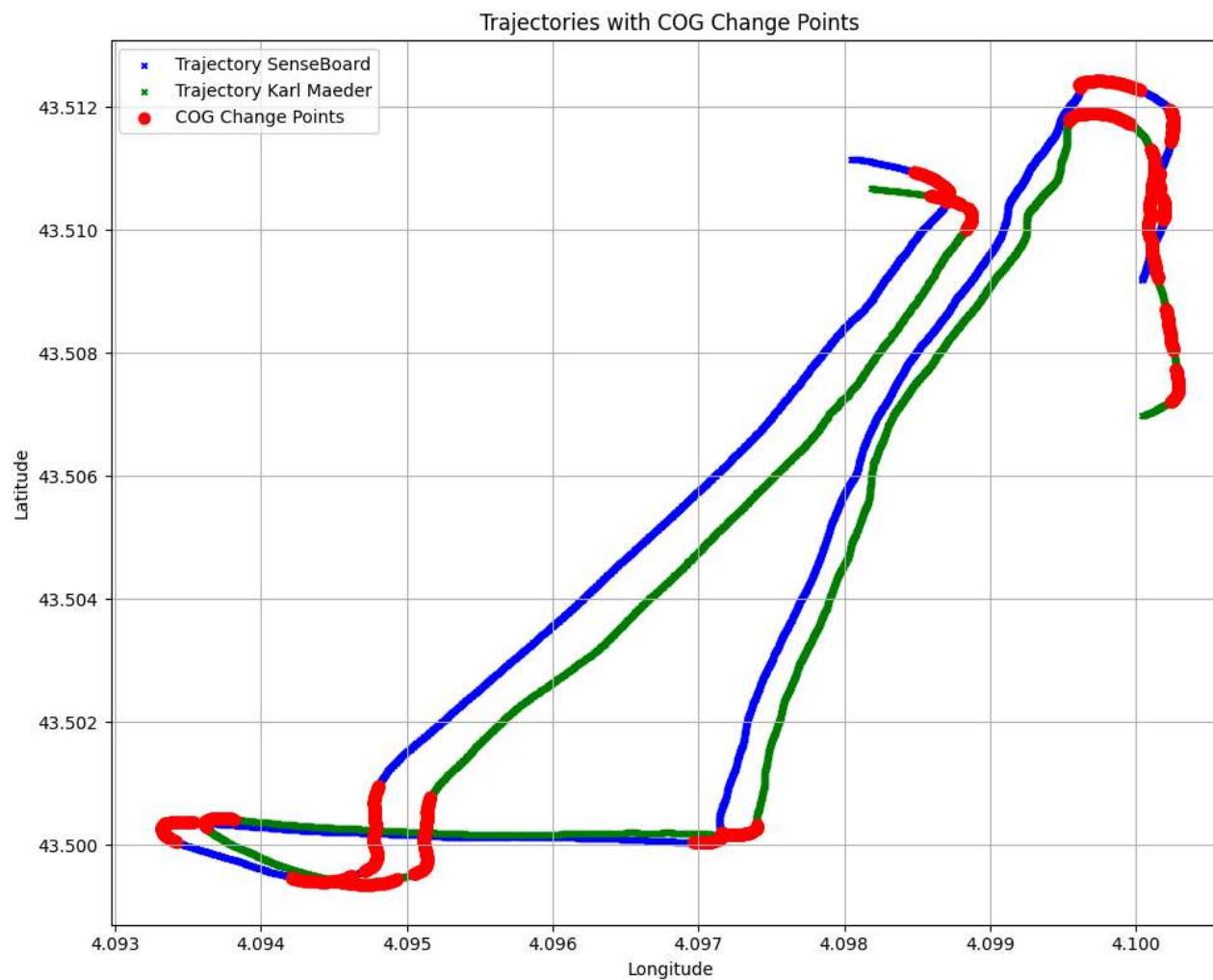


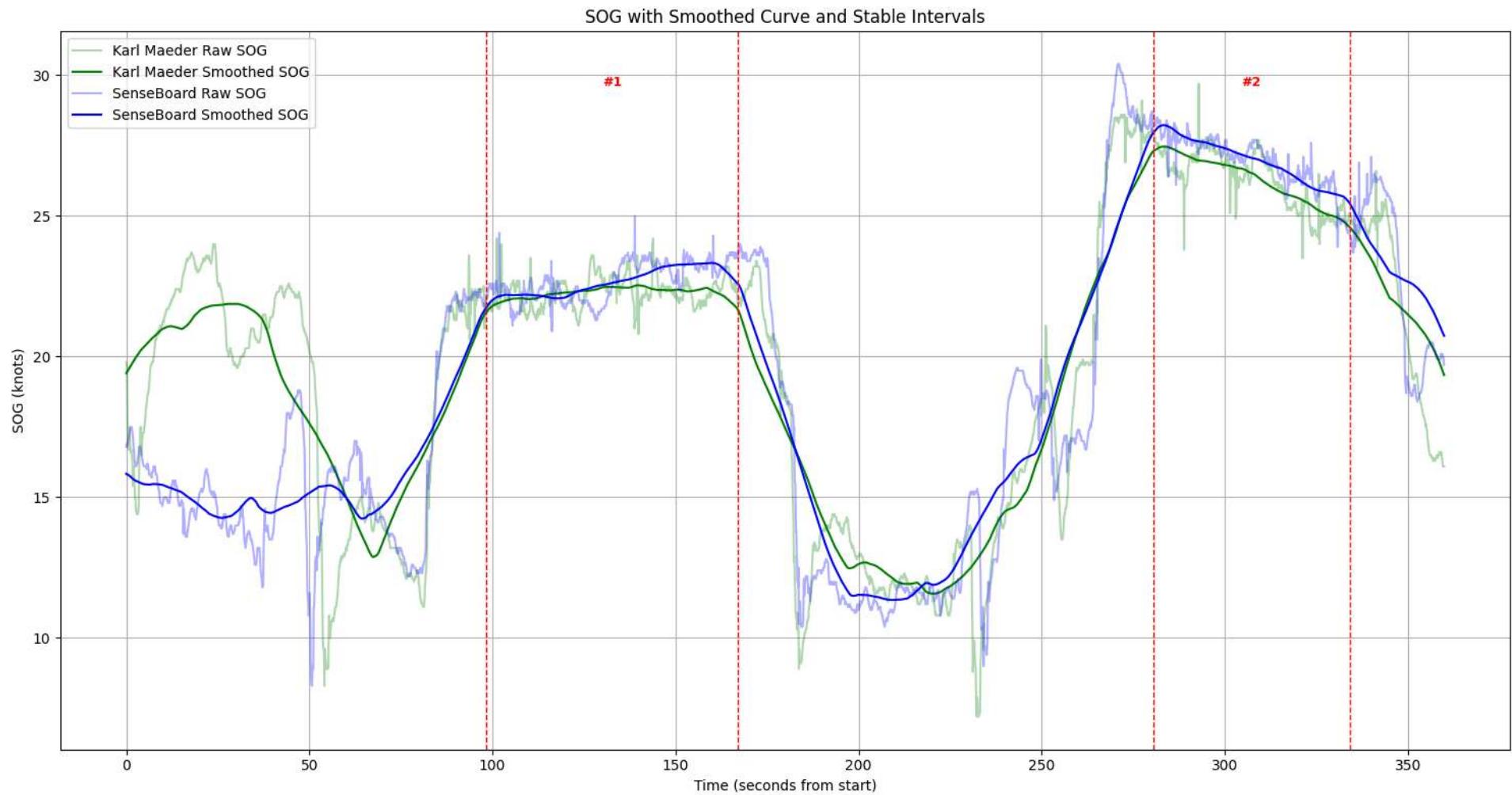
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\09_06\09_06_Run8



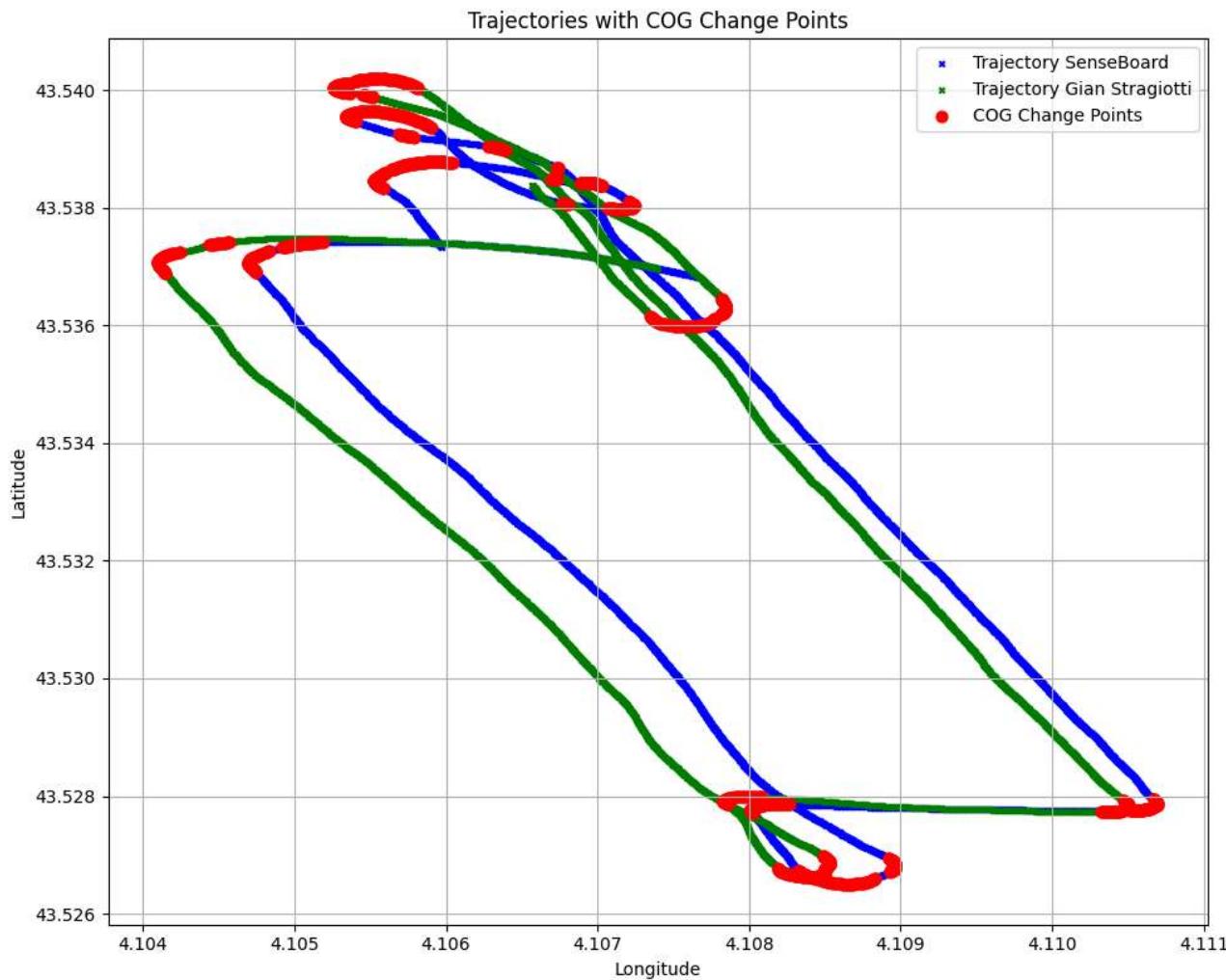


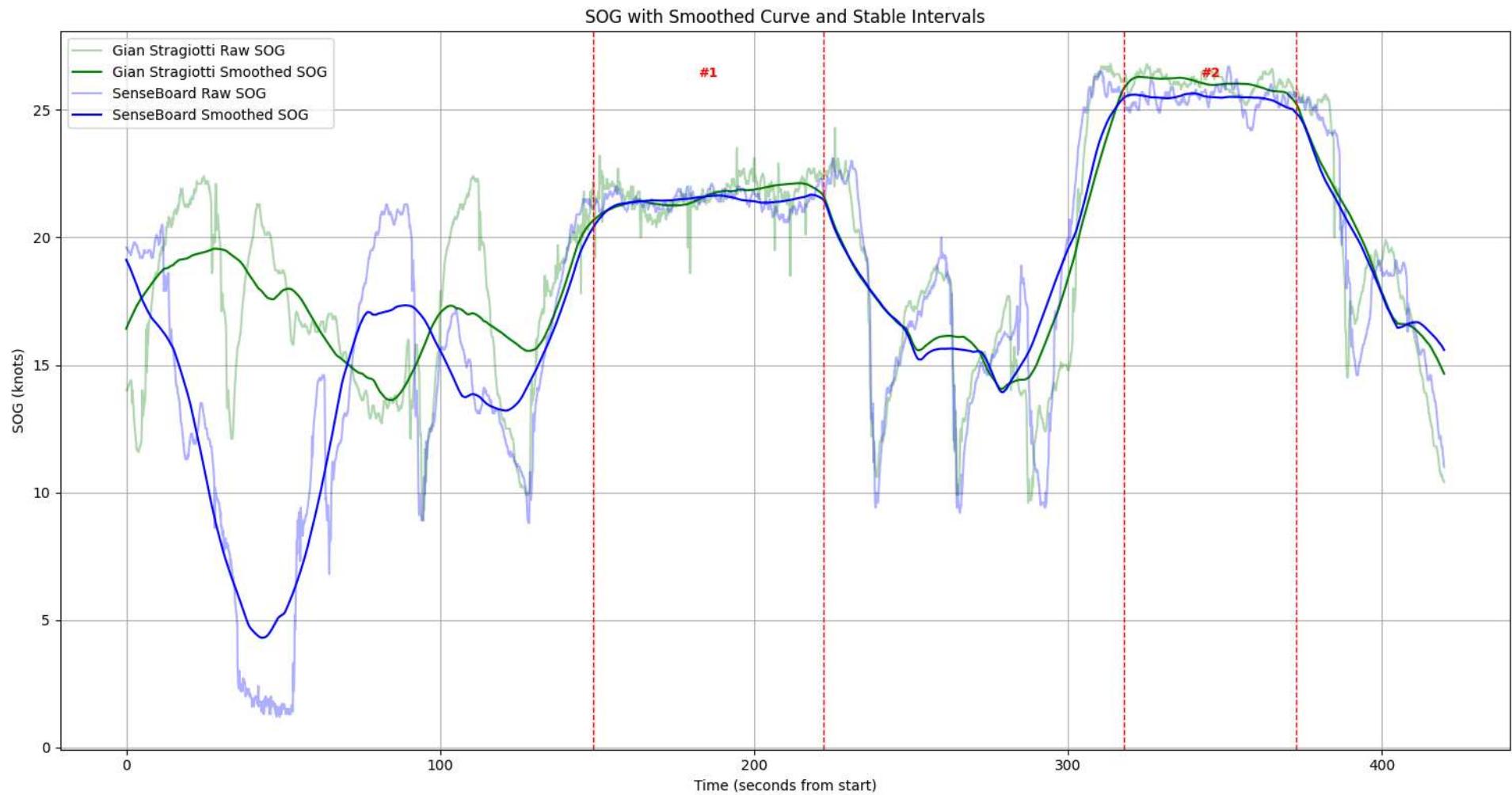
Analyse: Karl Maeder.csv et SenseBoard.csv dans .../Data_Sailnjord/Straight_lines\09_06\09_06_Run9



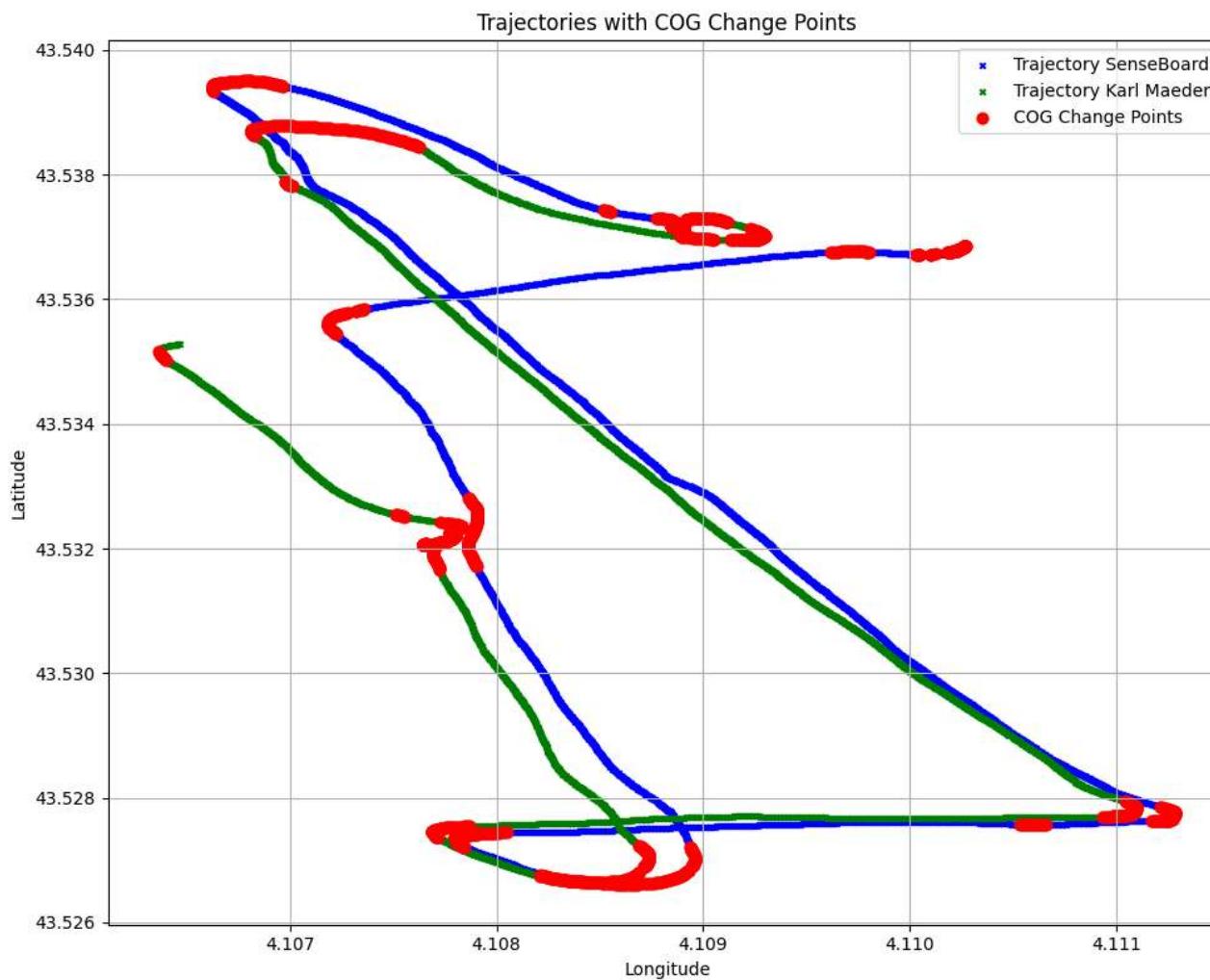


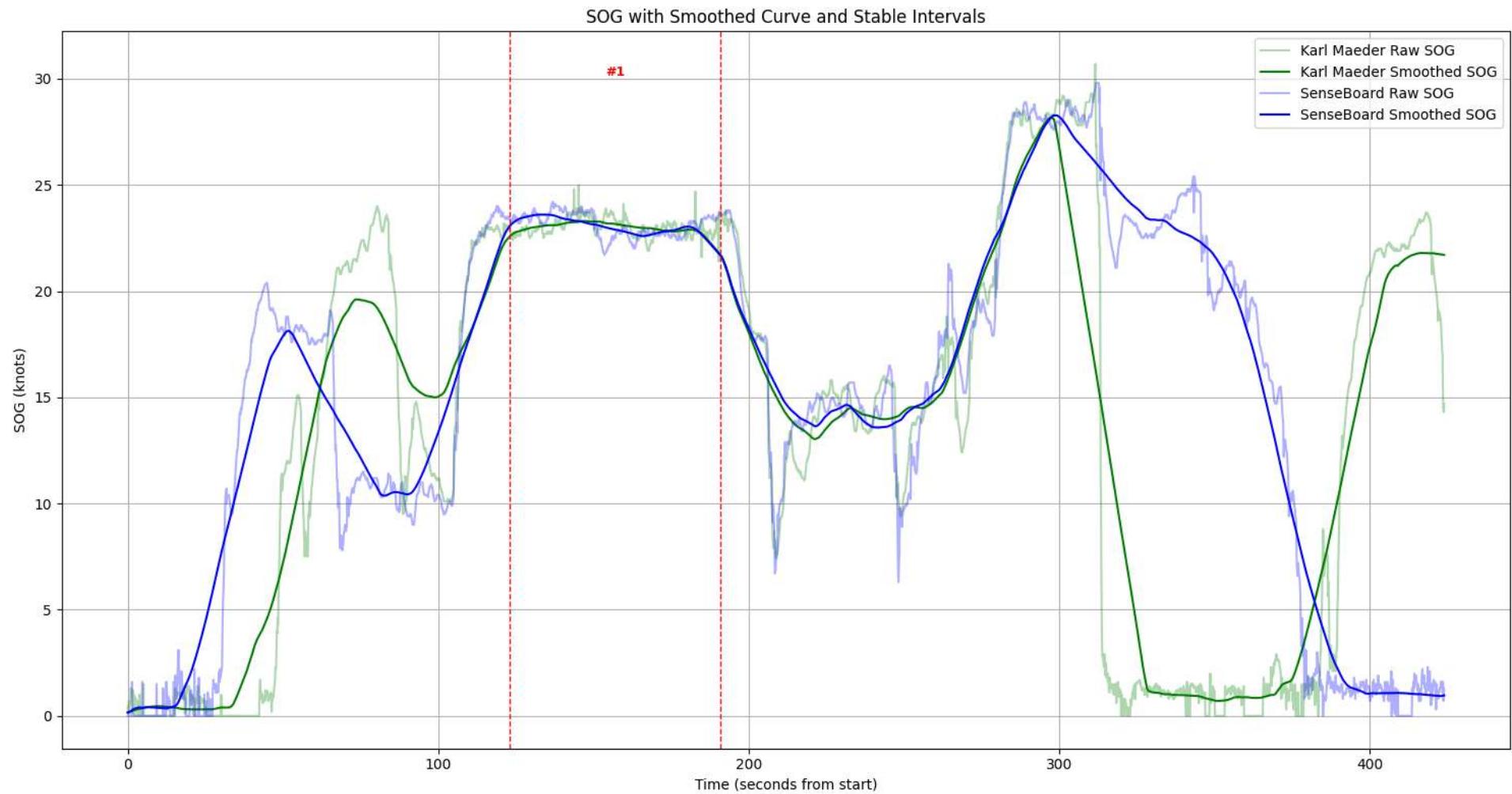
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\10_06\10_06_Run1



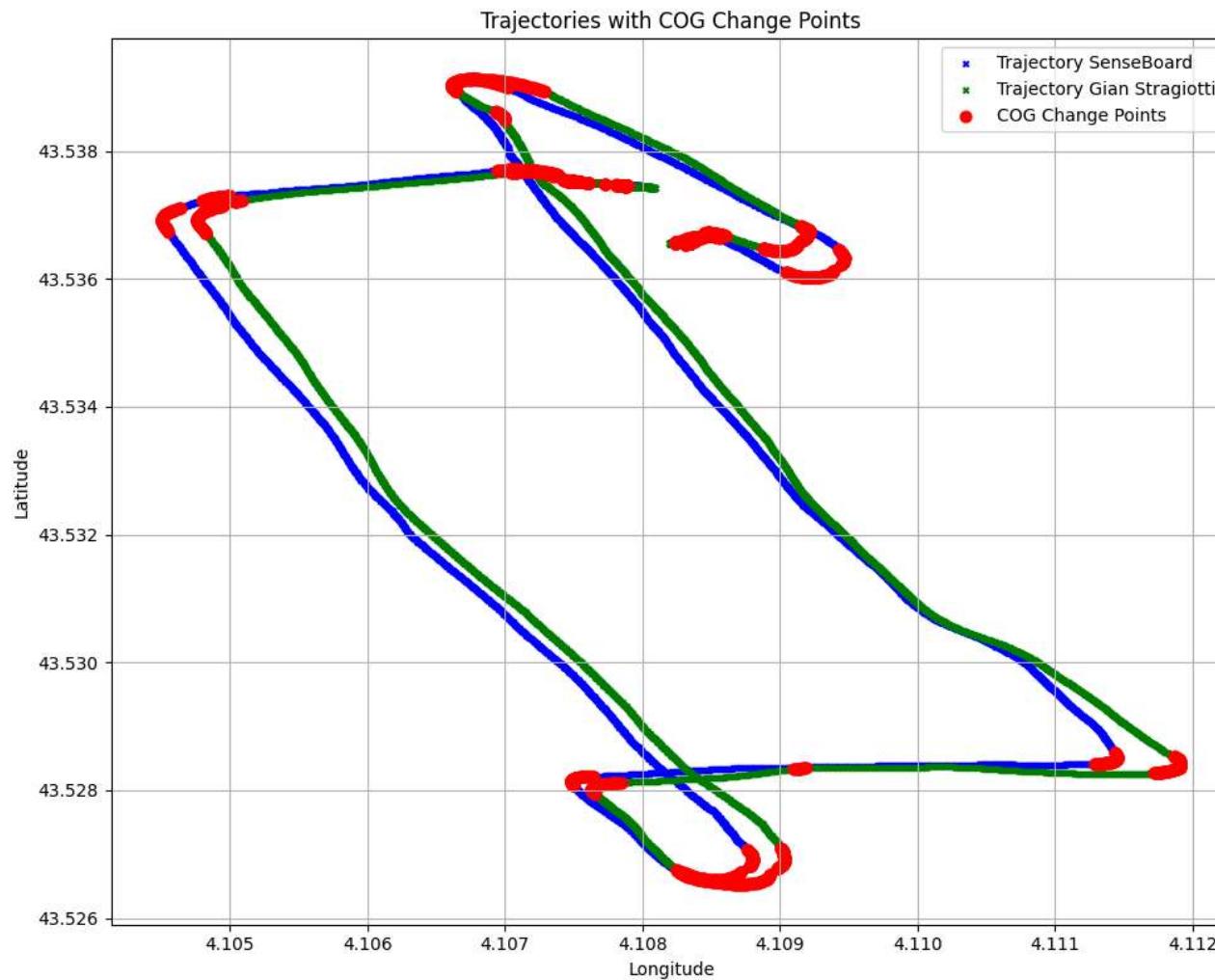


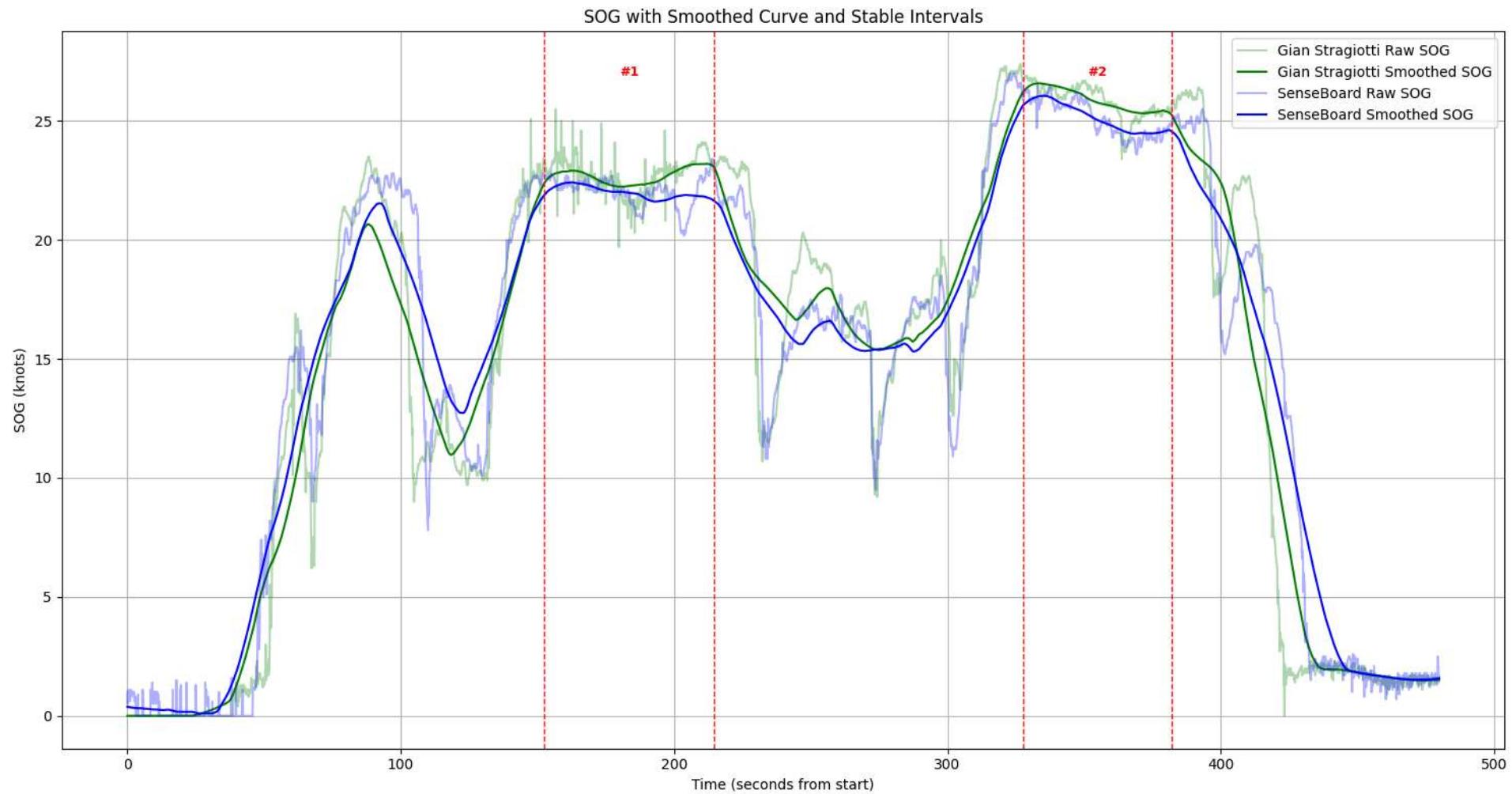
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\10_06\10_06_Run10

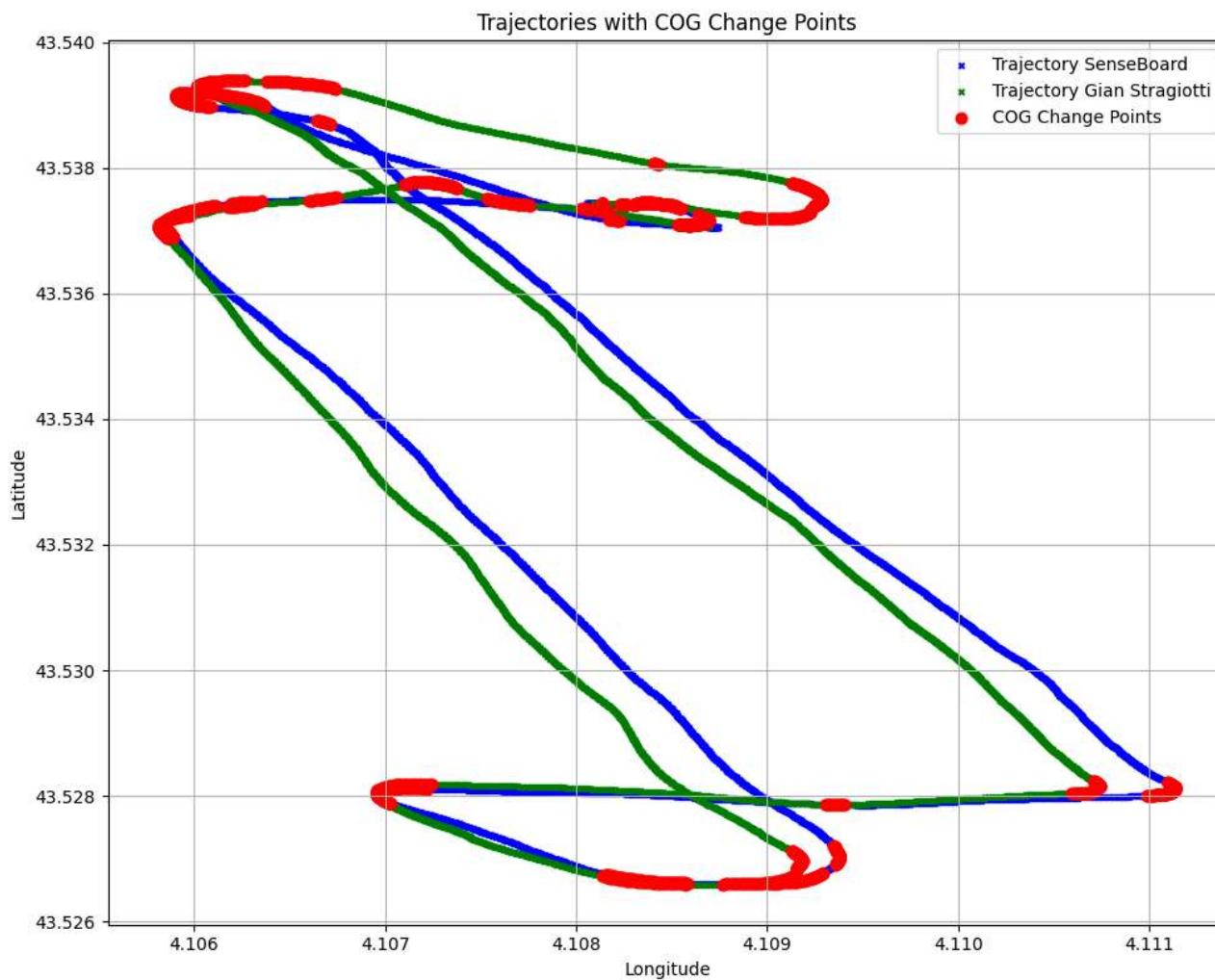


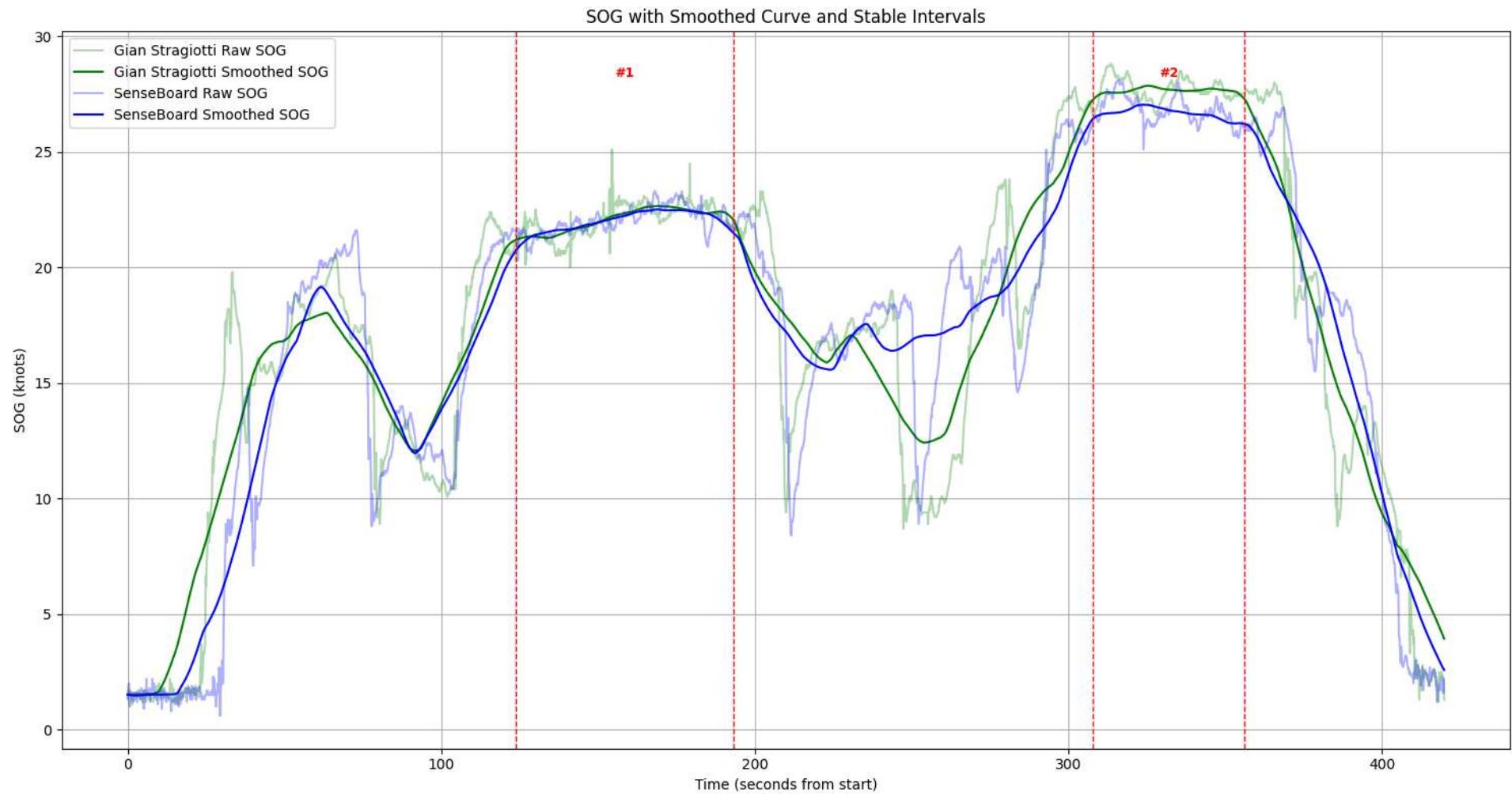


Analyse: Gian Stragiotti.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\10_06\10_06_Run2

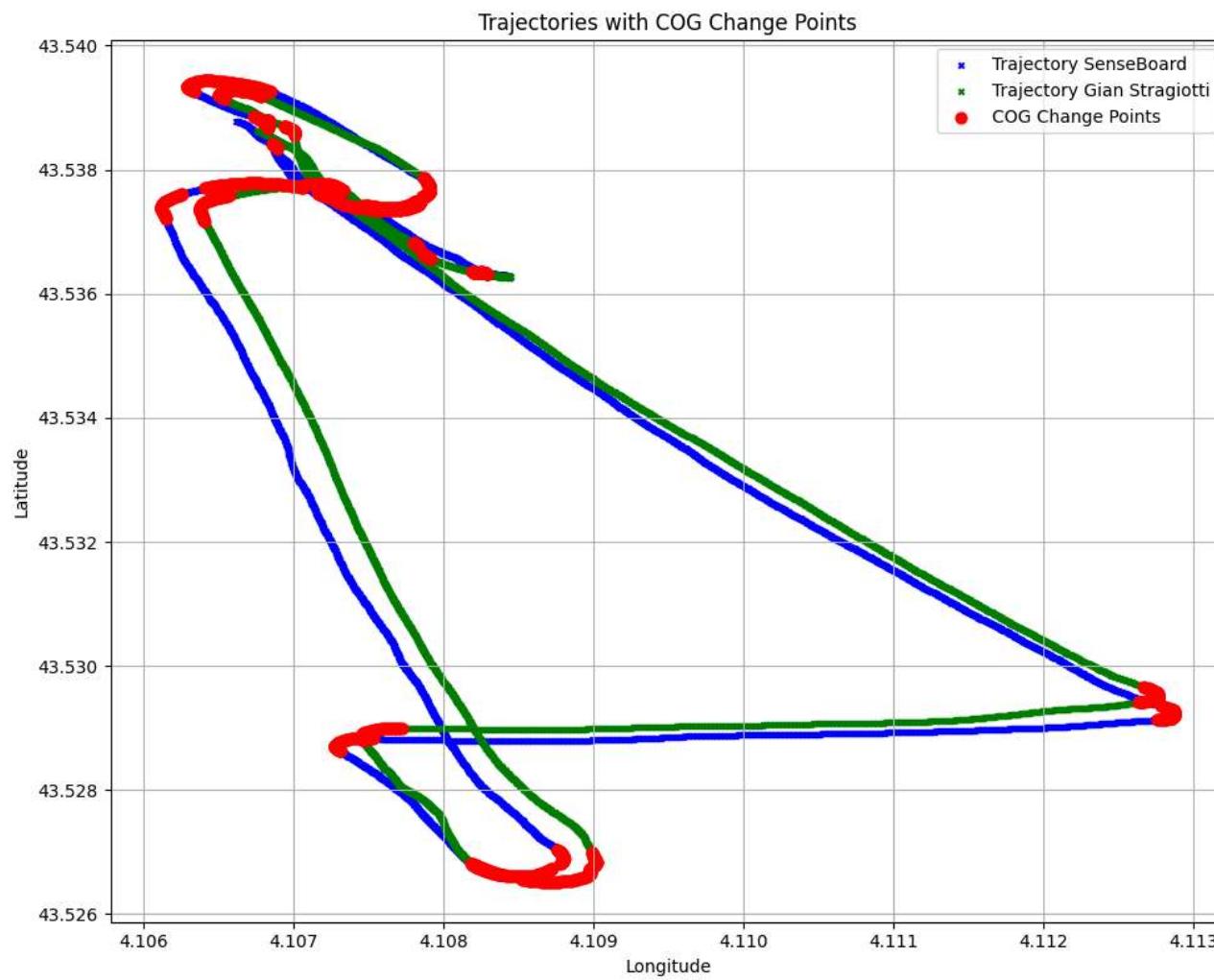




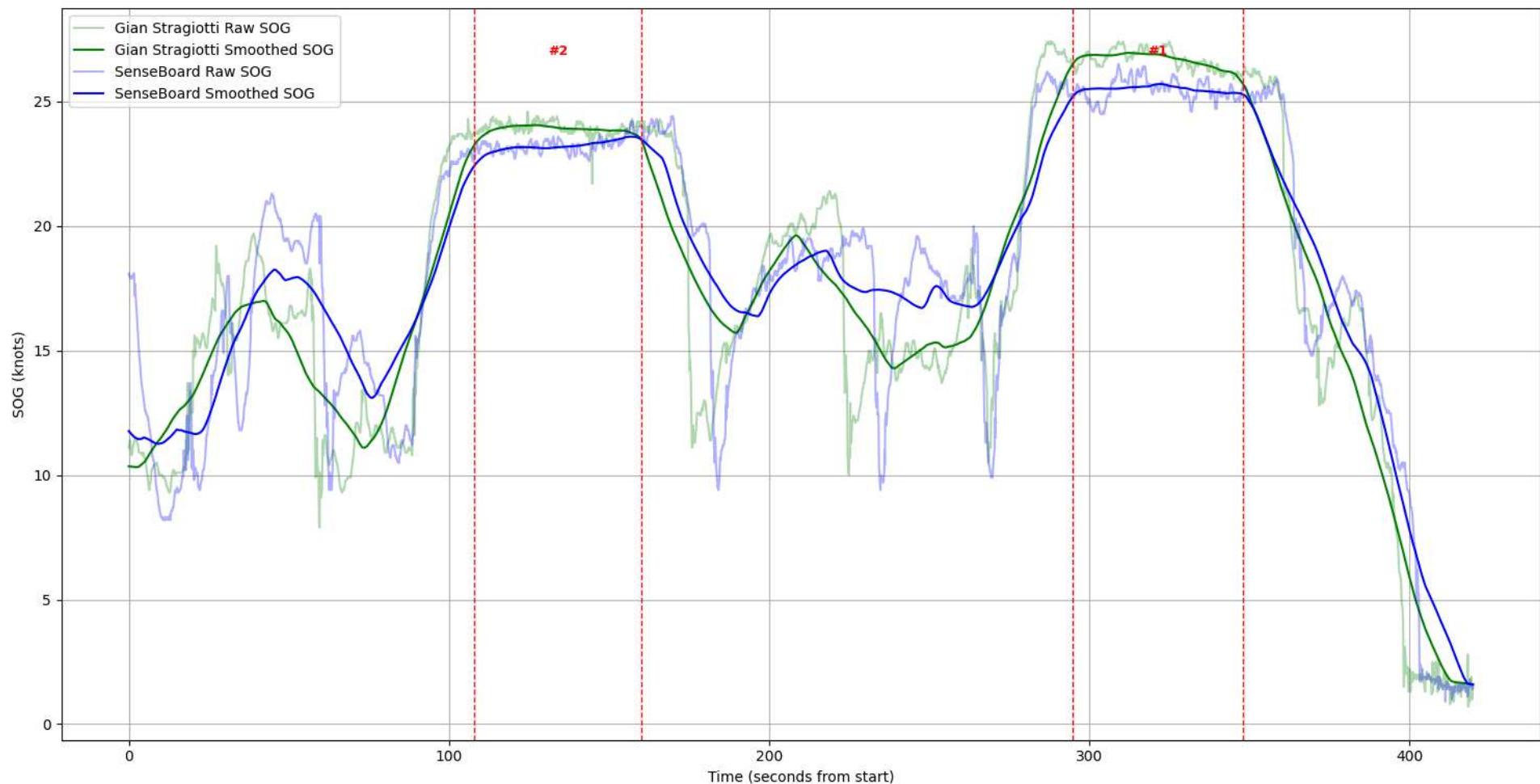




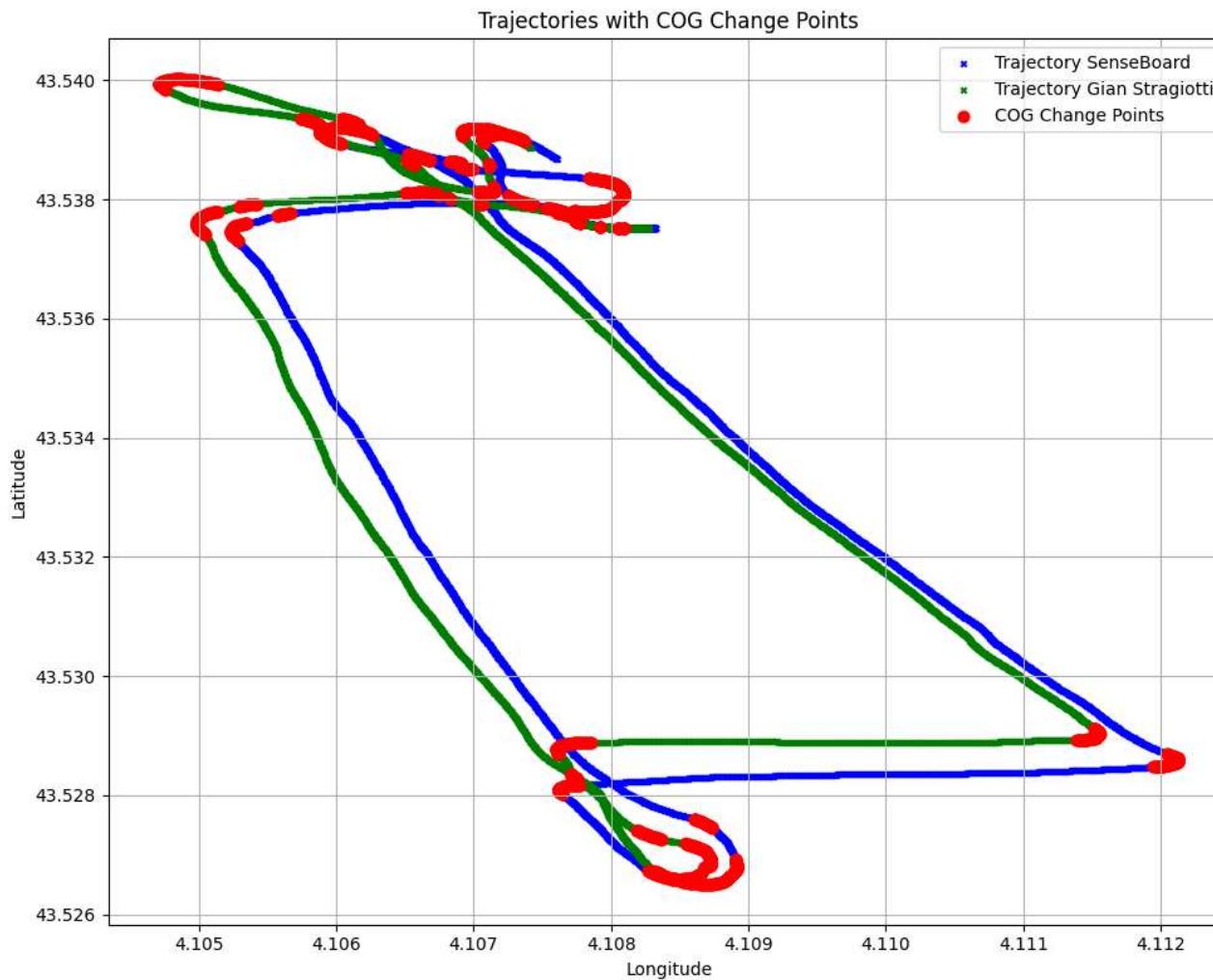
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\10_06\10_06_Run4

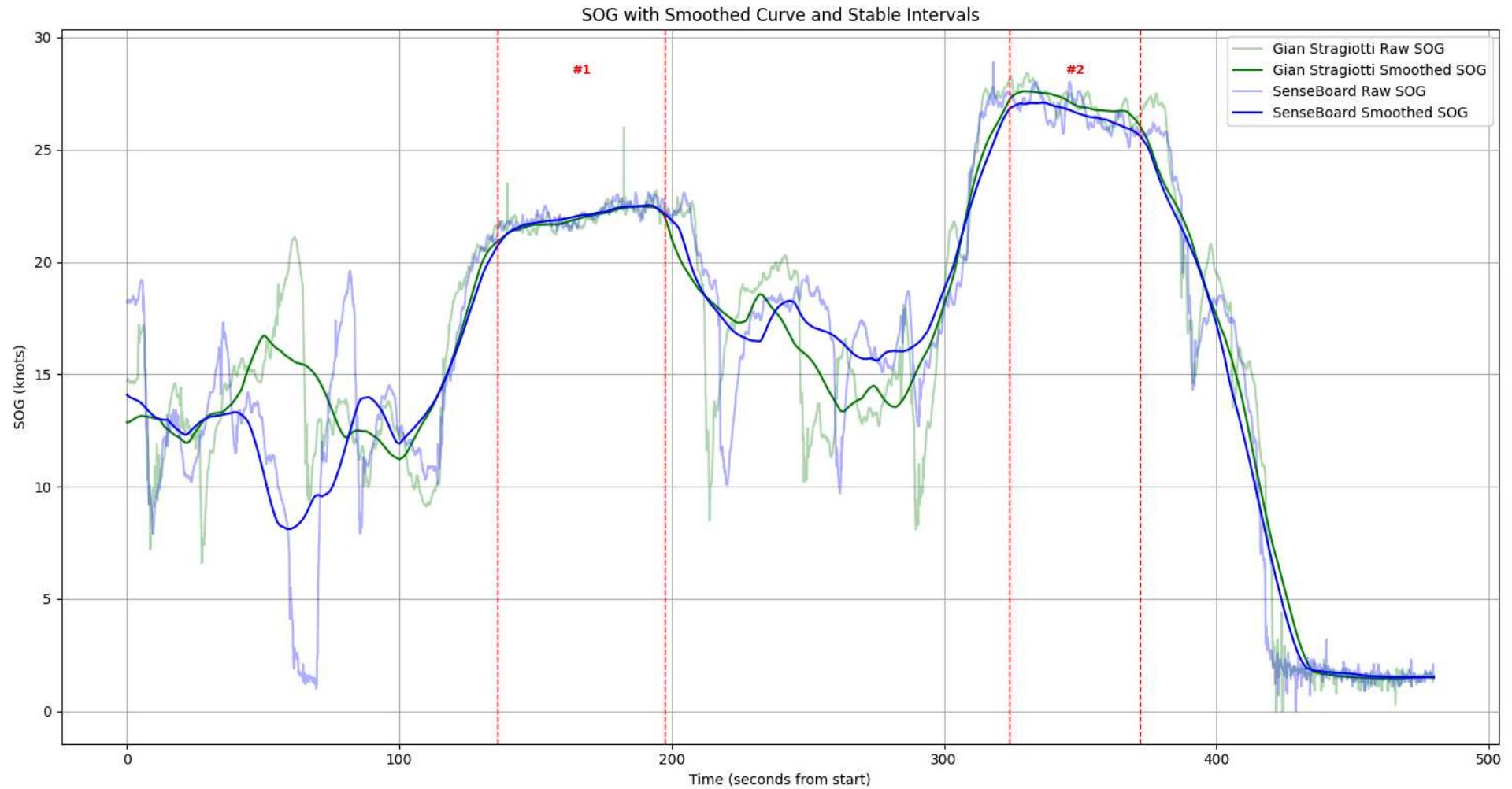


SOG with Smoothed Curve and Stable Intervals

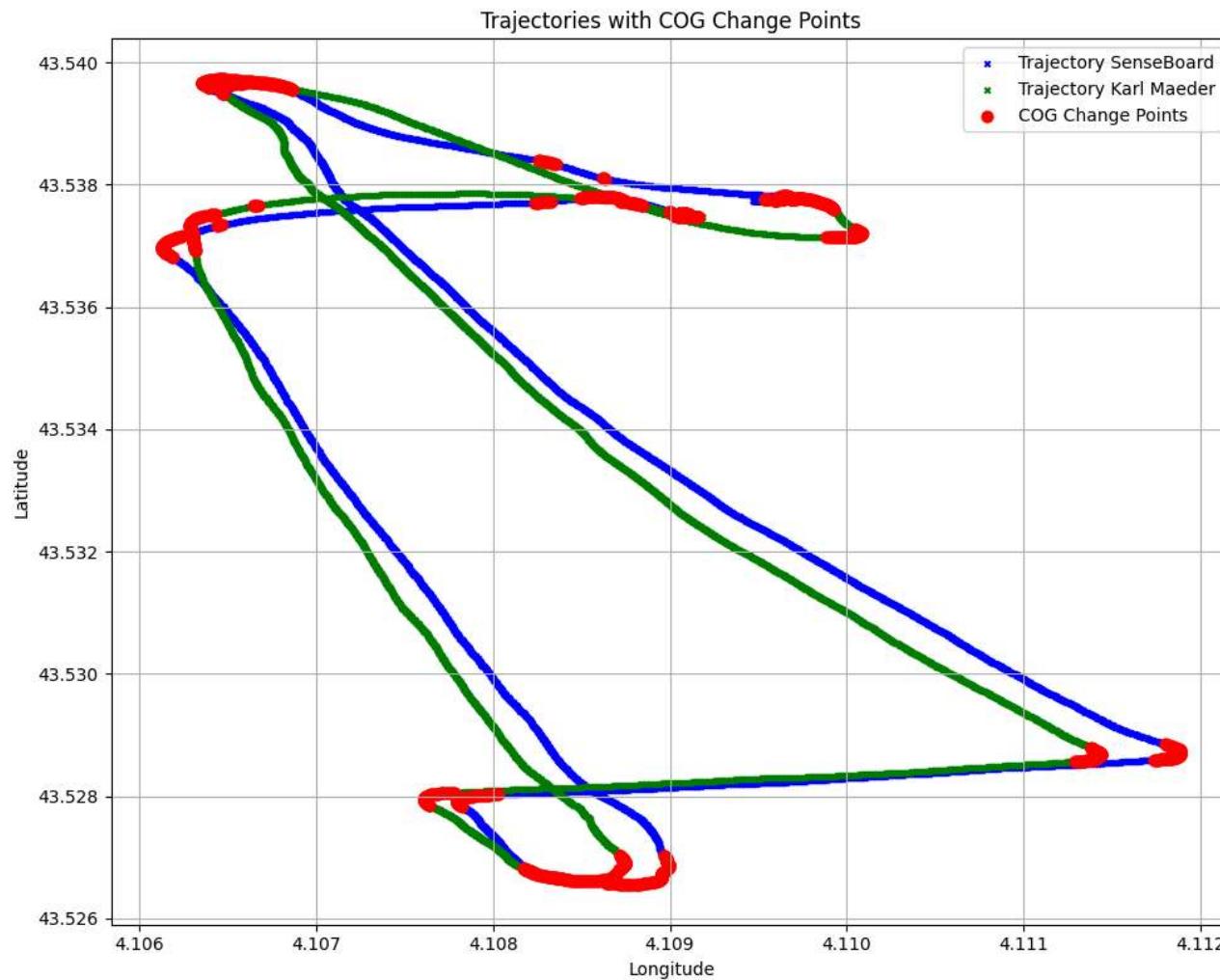


Analyse: Gian Stragiotti.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\10_06\10_06_Run5

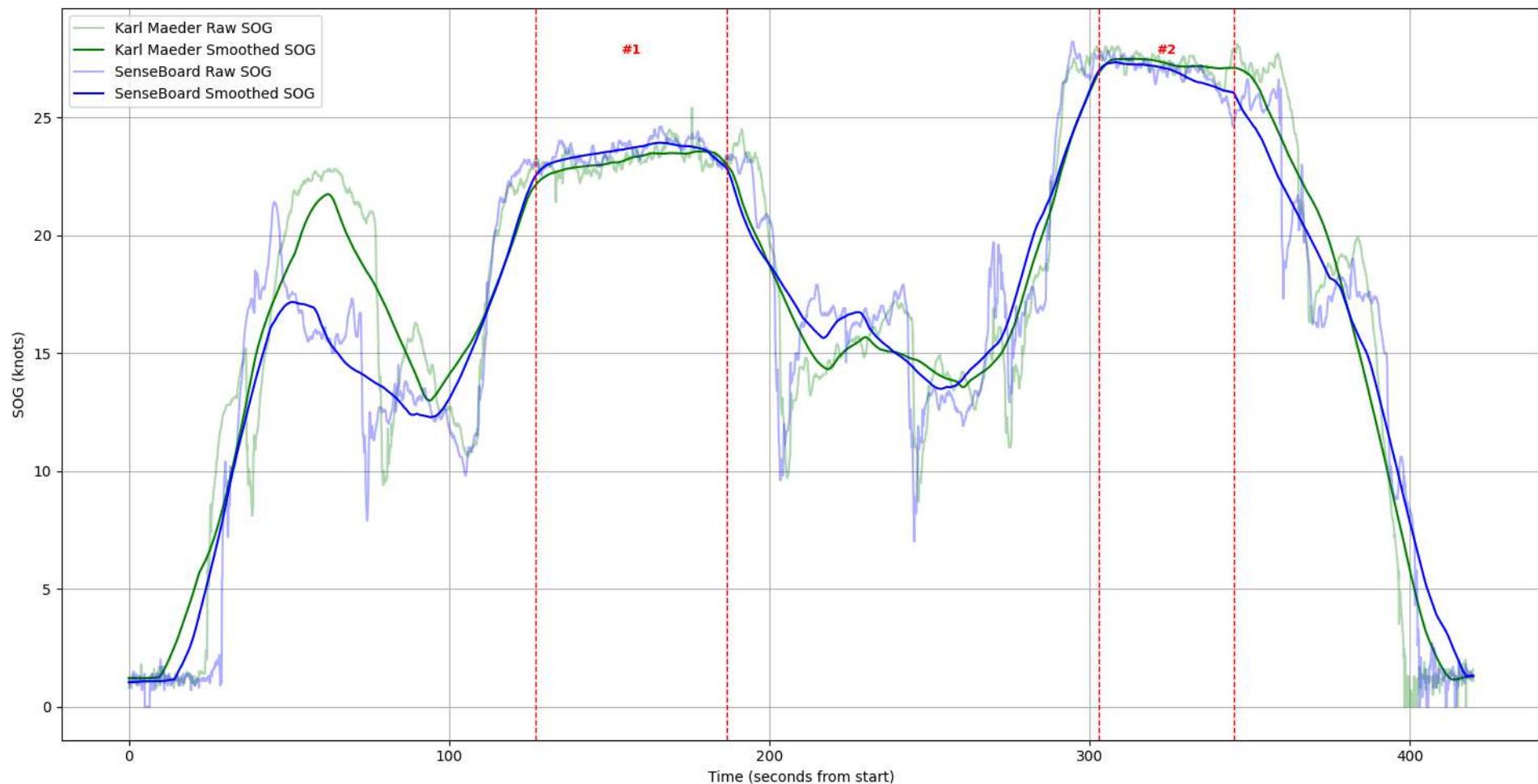




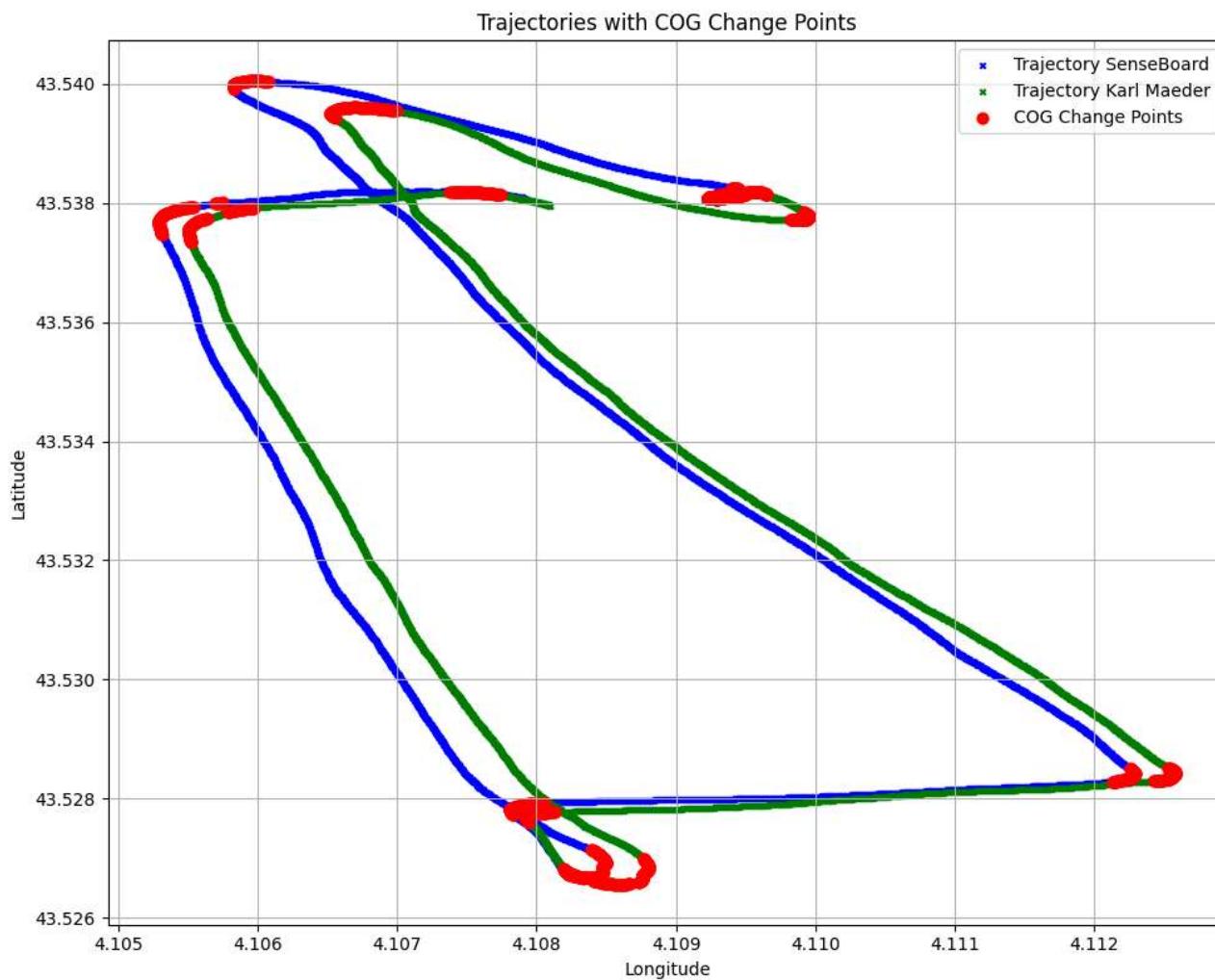
Analyse: Karl Maeder.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\10_06\10_06_Run6

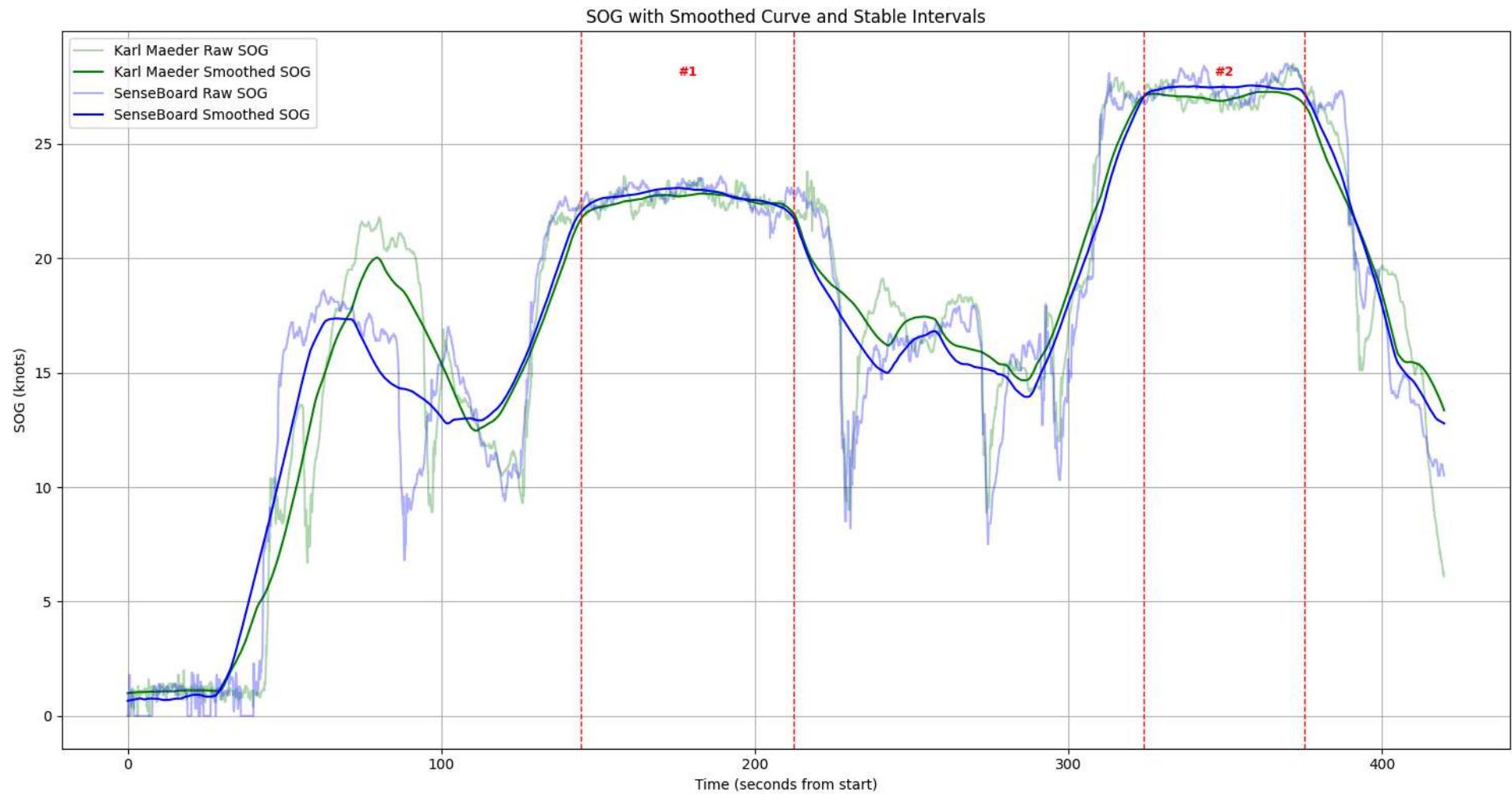


SOG with Smoothed Curve and Stable Intervals

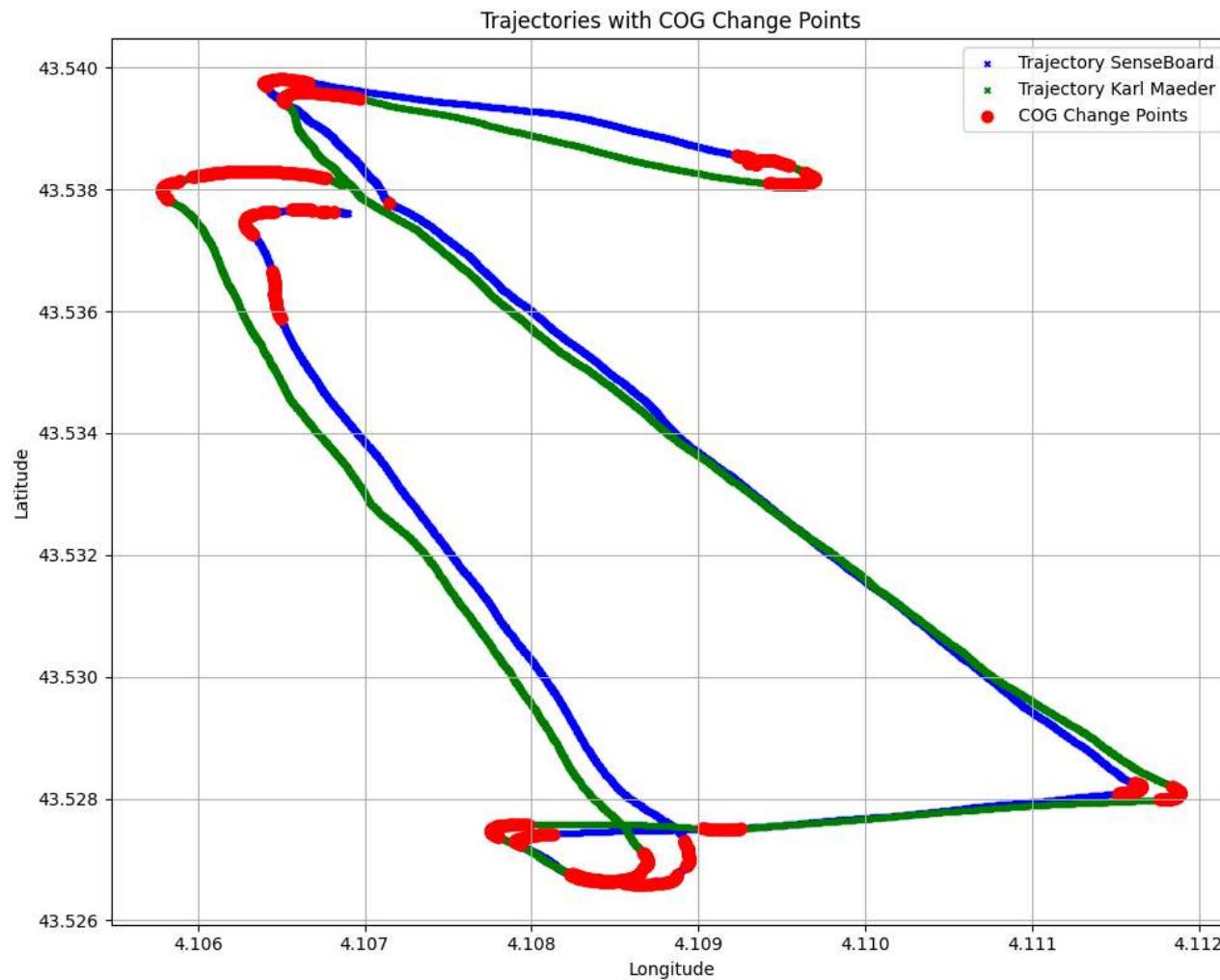


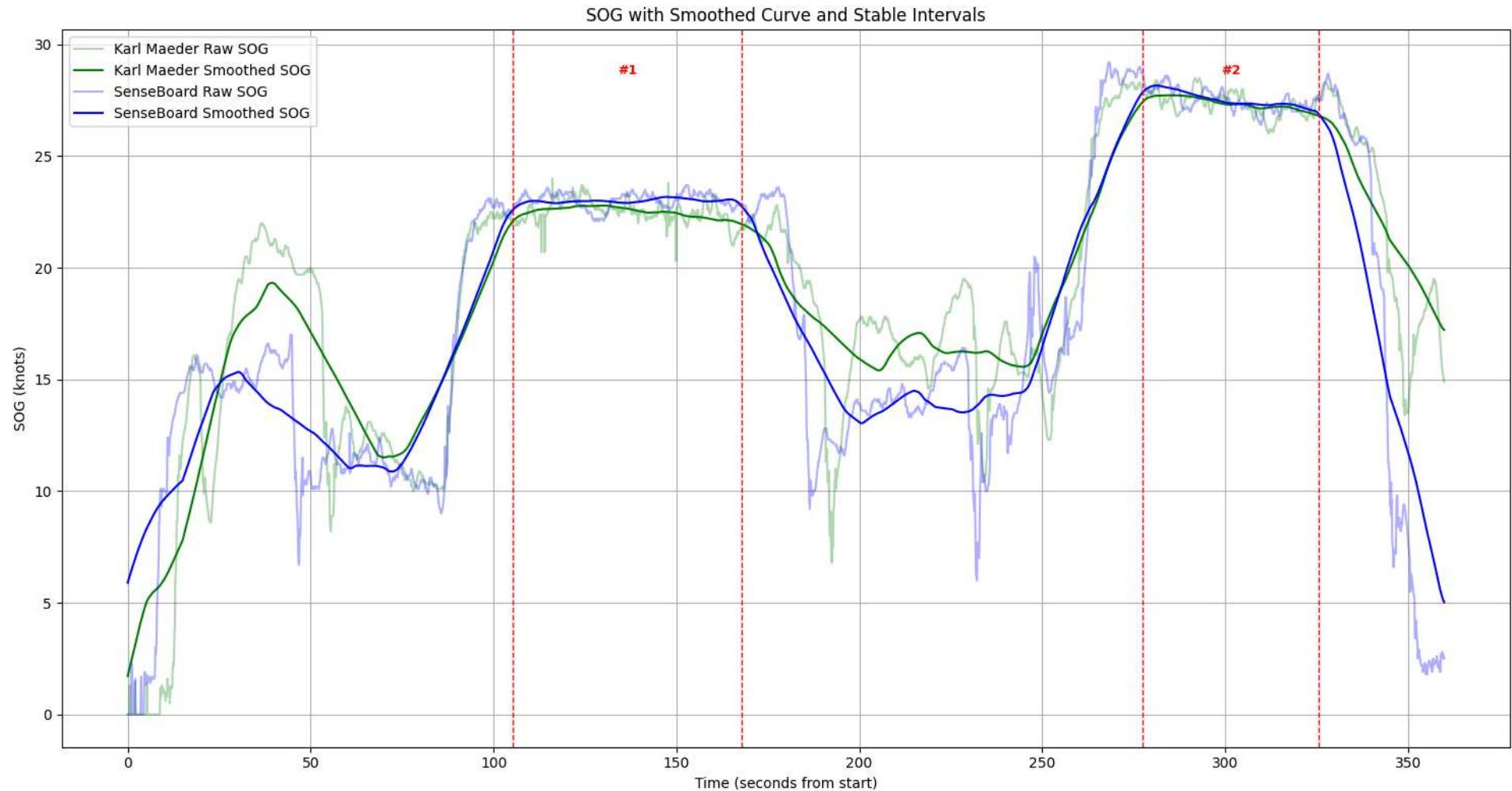
Analyse: Karl Maeder.csv et SenseBoard.csv dans .../Data_Sailnjord/Straight_lines\10_06\10_06_Run7



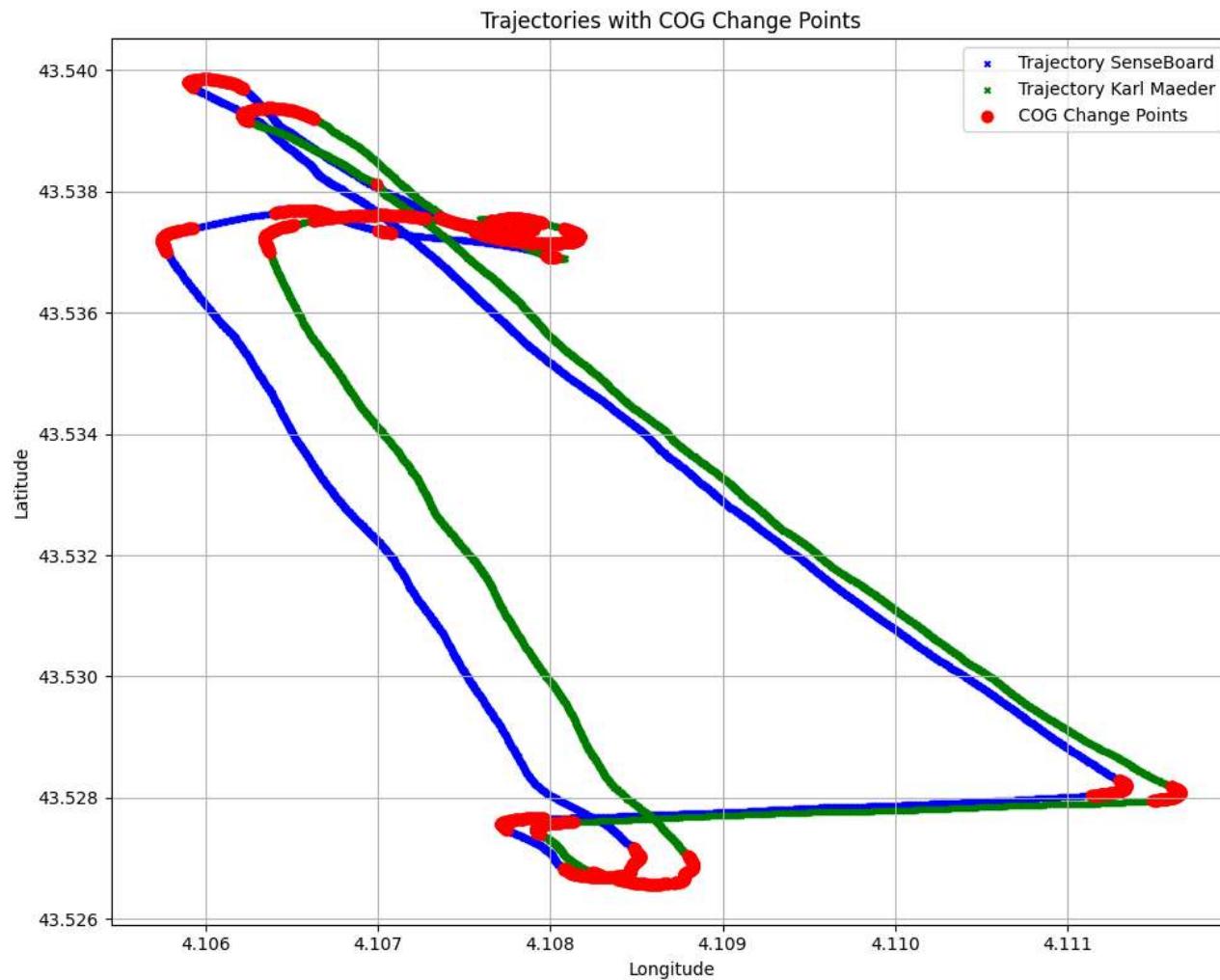


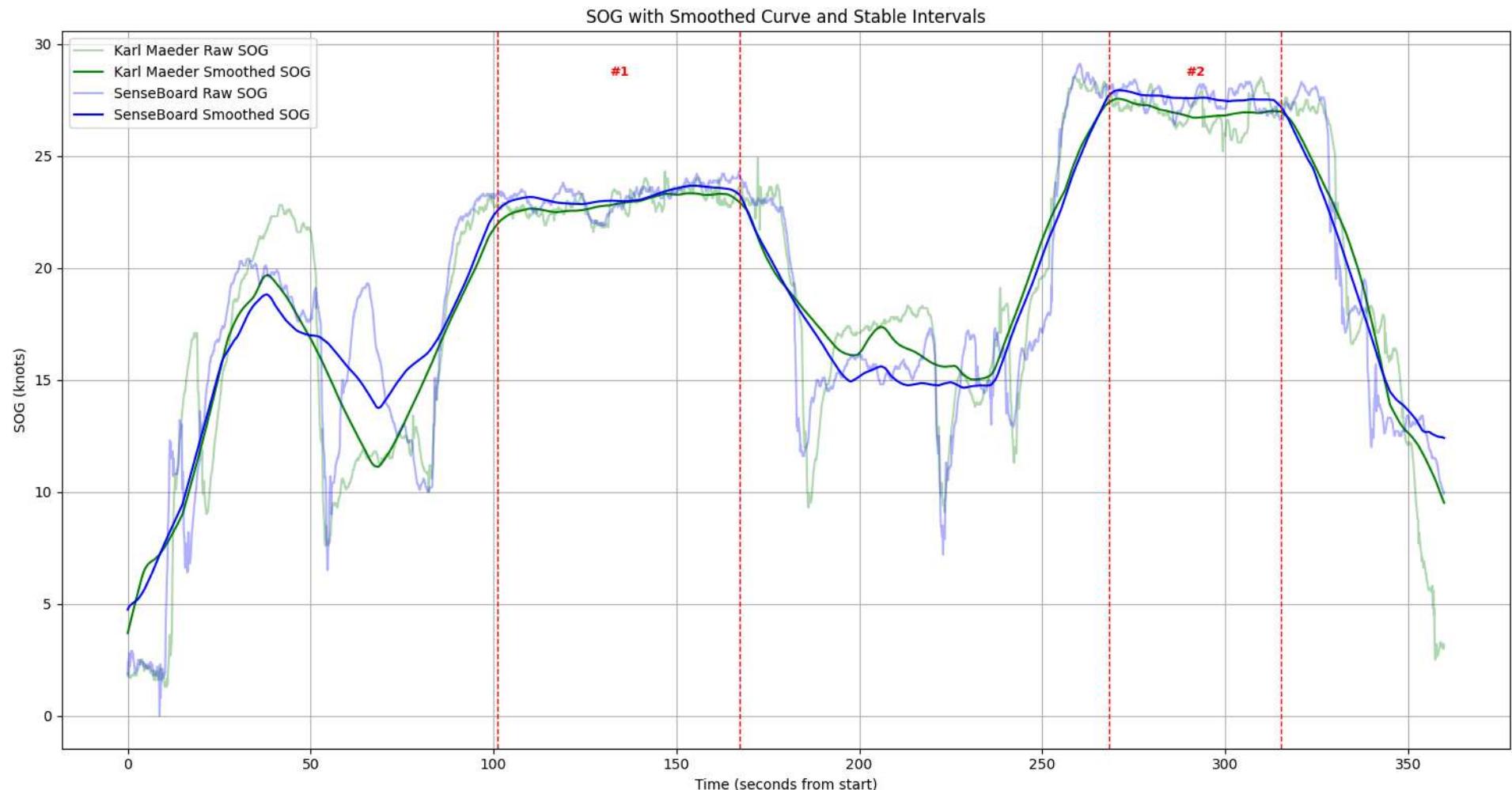
Analyse: Karl Maeder.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\10_06\10_06_Run8





Analyse: Karl Maeder.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\10_06\10_06_Run9





Résumé complet sauvegardé (38 runs)

In [2]:

```
print(json.dumps(summary, indent=2))
```

```
[
  {
    "run": "06_06_Run1",
    "intervals": [
      {
        "start_time": 1749217691.163,
        "end_time": 1749217774.756,
        "duration": 83.59299993515015,
        "boat1_name": "Gian Stragiotti",
        "boat2_name": "Karl Maeder",
        "avg_SOG_boat1": 20.437873357228195,
        "avg_SOG_boat2": 20.159856630824375,
        "SOG_variation_boat1": 0.9060069436977556,
        "SOG_variation_boat2": 0.6152285750161369,
        "stability_score": 0.9676324199379018,
        "avg TWA boat1": 48.330488649940264,
        "avg TWA boat2": 48.517577751196164
      },
      {
        "start_time": 1749217898.756,
        "end_time": 1749217961.048,
        "duration": 62.29200005531311,
        "boat1_name": "Gian Stragiotti",
        "boat2_name": "Karl Maeder",
        "avg_SOG_boat1": 26.308173076923076,
        "avg_SOG_boat2": 25.258974358974363,
        "SOG_variation_boat1": 0.9516972397395702,
        "SOG_variation_boat2": 1.0361443403525072,
        "stability_score": 0.9568326026425789,
        "avg TWA boat1": -127.84945833333335,
        "avg TWA boat2": -123.79282664526484
      }
    ]
  },
  {
    "run": "06_06_Run2",
    "intervals": [
      {
        "start_time": 1749218414.957,
        "end_time": 1749218497.944,
        "duration": 82.98699998855591,
        "boat1_name": "Gian Stragiotti",
        "boat2_name": "Karl Maeder",
        "avg_SOG_boat1": 20.580144404332128,
        "avg_SOG_boat2": 19.964981949458487,
        "SOG_variation_boat1": 0.9186044828922484,
        "SOG_variation_boat2": 0.8717597316888797,
        "stability_score": 0.9655042043463251,
        "avg TWA boat1": 58.89826233453671,
        "avg TWA boat2": 60.07042340168877
      },
      {
        "start_time": 1749218687.453,
        "end_time": 1749218760.858,
        "duration": 73.40499997138977,
        "boat1_name": "Gian Stragiotti",
        "boat2_name": "Karl Maeder",
        "avg_SOG_boat1": 23.9421768707483,
        "avg_SOG_boat2": 23.076734693877555,
        "SOG_variation_boat1": 0.8062025534752273,
        "SOG_variation_boat2": 0.6564624907211762,
        "stability_score": 0.9693254072977828,
        "avg TWA boat1": -126.20847482993196,
        "avg TWA boat2": 48.517577751196164
      }
    ]
  }
]
```

```

        "avg TWA boat2": -122.11107220708448
    }
]
},
{
  "run": "06_06_Run3",
  "intervals": [
    {
      "start_time": 1749219088.156,
      "end_time": 1749219170.846,
      "duration": 82.6900005722046,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "Karl Maeder",
      "avg_SOG_boat1": 21.063164251207727,
      "avg_SOG_boat2": 20.359541062801927,
      "SOG_variation_boat1": 0.49000470659418433,
      "SOG_variation_boat2": 0.6792614824590278,
      "stability_score": 0.9702963955551277,
      "avg TWA boat1": 52.54139975845411,
      "avg TWA boat2": 52.82867917675545
    },
    {
      "start_time": 1749219294.36,
      "end_time": 1749219357.356,
      "duration": 62.99600005149841,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "Karl Maeder",
      "avg_SOG_boat1": 25.69017432646593,
      "avg_SOG_boat2": 24.954992076069733,
      "SOG_variation_boat1": 0.9379808445806027,
      "SOG_variation_boat2": 0.7911030825617474,
      "stability_score": 0.9544882981127863,
      "avg TWA boat1": -143.14596038034864,
      "avg TWA boat2": -139.84990634920635
    }
  ]
},
{
  "run": "06_06_Run4",
  "intervals": [
    {
      "start_time": 1749219598.357,
      "end_time": 1749219672.165,
      "duration": 73.80799984931946,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "Karl Maeder",
      "avg_SOG_boat1": 20.830446549391066,
      "avg_SOG_boat2": 19.742625169147495,
      "SOG_variation_boat1": 0.7122666523594098,
      "SOG_variation_boat2": 0.7265832233472408,
      "stability_score": 0.9631675127350817,
      "avg TWA boat1": 52.66727198917456,
      "avg TWA boat2": 52.53241598915989
    },
    {
      "start_time": 1749219850.357,
      "end_time": 1749219909.859,
      "duration": 59.501999855041504,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "Karl Maeder",
      "avg_SOG_boat1": 25.710234899328857,
      "avg_SOG_boat2": 25.048657718120804,
      "SOG_variation_boat1": 1.2440294837720993,
    }
  ]
}

```

```

    "SOG_variation_boat2": 0.9417567404996181,
    "stability_score": 0.9548481156683271,
    "avg TWA boat1": -149.82159731543624,
    "avg TWA boat2": -149.42426890756303
  },
],
{
  "run": "06_06_Run5",
  "intervals": [
    {
      "start_time": 1749220730.46,
      "end_time": 1749220811.654,
      "duration": 81.1940000572205,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 21.45227552275523,
      "avg_SOG_boat2": 21.483148831488318,
      "SOG_variation_boat1": 0.5502890980942721,
      "SOG_variation_boat2": 0.5485079840896449,
      "stability_score": 0.9628159995384037,
      "avg TWA boat1": 48.68512300123002,
      "avg TWA boat2": 48.25772996300863
    },
    {
      "start_time": 1749220933.563,
      "end_time": 1749220975.854,
      "duration": 42.29100012779236,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 26.419575471698113,
      "avg_SOG_boat2": 26.722169811320757,
      "SOG_variation_boat1": 0.5526799602831597,
      "SOG_variation_boat2": 0.7248894980165709,
      "stability_score": 0.962807102252274,
      "avg TWA boat1": -152.95215094339622,
      "avg TWA boat2": -152.49173459715638
    }
  ]
},
{
  "run": "06_06_Run6",
  "intervals": [
    {
      "start_time": 1749221351.961,
      "end_time": 1749221423.255,
      "duration": 71.2940001487732,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 21.702941176470592,
      "avg_SOG_boat2": 22.300560224089637,
      "SOG_variation_boat1": 0.6024771486351213,
      "SOG_variation_boat2": 0.5333213508461789,
      "stability_score": 0.9690295257499035,
      "avg TWA boat1": 46.08574509803922,
      "avg TWA boat2": 45.63624157303371
    },
    {
      "start_time": 1749221546.368,
      "end_time": 1749221601.952,
      "duration": 55.58399987220764,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 21.702941176470592,
      "avg_SOG_boat2": 22.300560224089637,
      "SOG_variation_boat1": 0.6024771486351213,
      "SOG_variation_boat2": 0.5333213508461789,
      "stability_score": 0.9690295257499035,
      "avg TWA boat1": 46.08574509803922,
      "avg TWA boat2": 45.63624157303371
    }
  ]
}
]

```

```

    "avg_SOG_boat1": 26.98312387791741,
    "avg_SOG_boat2": 27.60682226211849,
    "SOG_variation_boat1": 1.1345469133779522,
    "SOG_variation_boat2": 0.95609938547161,
    "stability_score": 0.9421958135106284,
    "avg TWA boat1": -144.59948473967685,
    "avg TWA boat2": -145.07276936936935
  }
],
},
{
  "run": "06_06_Run7",
  "intervals": [
    {
      "start_time": 1749221873.364,
      "end_time": 1749221950.56,
      "duration": 77.19599986076355,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 21.420957309184995,
      "avg_SOG_boat2": 21.57464424320828,
      "SOG_variation_boat1": 0.8433990042082609,
      "SOG_variation_boat2": 0.7266066949019068,
      "stability_score": 0.9643827859484259,
      "avg TWA boat1": 48.42436351875809,
      "avg TWA boat2": 47.25475518134715
    },
    {
      "start_time": 1749222066.453,
      "end_time": 1749222107.762,
      "duration": 41.30900001525879,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 27.19396135265701,
      "avg_SOG_boat2": 28.07246376811594,
      "SOG_variation_boat1": 0.6062525372636404,
      "SOG_variation_boat2": 0.6829045058127635,
      "stability_score": 0.9661079805234971,
      "avg TWA boat1": -149.69734541062803,
      "avg TWA boat2": -148.5991231884058
    }
  ]
},
{
  "run": "06_06_Run8",
  "intervals": [
    {
      "start_time": 1749222372.562,
      "end_time": 1749222433.253,
      "duration": 60.69099998474121,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.20378289473684,
      "avg_SOG_boat2": 22.531743421052635,
      "SOG_variation_boat1": 0.5939859207419921,
      "SOG_variation_boat2": 0.7305042739030235,
      "stability_score": 0.9676355493012209,
      "avg TWA boat1": 51.7811052631579,
      "avg TWA boat2": 51.41245709570957
    },
    {
      "start_time": 1749222550.76,
      "end_time": 1749222589.053,
      "duration": 38.30900001525879
    }
  ]
}
]
}

```

```

    "duration": 38.29299998283386,
    "boat1_name": "Karl Maeder",
    "boat2_name": "SenseBoard",
    "avg_SOG_boat1": 27.98802083333337,
    "avg_SOG_boat2": 28.15494791666668,
    "SOG_variation_boat1": 0.9550264111740758,
    "SOG_variation_boat2": 0.7404229243755341,
    "stability_score": 0.9486132309964281,
    "avg TWA boat1": -156.70291927083335,
    "avg TWA boat2": -155.94574083769635
  }
],
},
{
  "run": "07_06_Run1",
  "intervals": [
    {
      "start_time": 1749296977.156,
      "end_time": 1749297042.555,
      "duration": 65.39900016784668,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "Karl Maeder",
      "avg_SOG_boat1": 21.907786259541986,
      "avg_SOG_boat2": 21.809618320610685,
      "SOG_variation_boat1": 0.8742758384554244,
      "SOG_variation_boat2": 1.0122411358441399,
      "stability_score": 0.9599531391568393,
      "avg TWA boat1": 49.980738931297715,
      "avg TWA boat2": 50.378325688073396
    },
    {
      "start_time": 1749297154.257,
      "end_time": 1749297201.36,
      "duration": 47.1029999256134,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "Karl Maeder",
      "avg_SOG_boat1": 27.995974576271188,
      "avg_SOG_boat2": 27.388771186440678,
      "SOG_variation_boat1": 0.4785025112578562,
      "SOG_variation_boat2": 0.44908609081104717,
      "stability_score": 0.9647004339495513,
      "avg TWA boat1": -143.7616779661017,
      "avg TWA boat2": -143.34568008474577
    }
  ]
},
{
  "run": "07_06_Run10",
  "intervals": [
    {
      "start_time": 1749302815.46,
      "end_time": 1749302871.359,
      "duration": 55.8989999294281,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.64982142857143,
      "avg_SOG_boat2": 23.46178571428571,
      "SOG_variation_boat1": 0.7167058190253439,
      "SOG_variation_boat2": 0.5893542967471275,
      "stability_score": 0.9661678089021432,
      "avg TWA boat1": 45.73300892857143,
      "avg TWA boat2": 44.74569767441861
    }
  ]
}

```

```

        ],
    },
    {
        "run": "07_06_Run2",
        "intervals": [
            {
                "start_time": 1749297512.857,
                "end_time": 1749297579.456,
                "duration": 66.59899997711182,
                "boat1_name": "Gian Stragiotti",
                "boat2_name": "Karl Maeder",
                "avg_SOG_boat1": 22.735232383808096,
                "avg_SOG_boat2": 22.480509745127435,
                "SOG_variation_boat1": 0.6087969219394326,
                "SOG_variation_boat2": 0.517104764402101,
                "stability_score": 0.9718302241349652,
                "avg TWA boat1": 48.030664167916036,
                "avg TWA boat2": 48.998265765765765
            },
            {
                "start_time": 1749297696.957,
                "end_time": 1749297745.558,
                "duration": 48.6010000705719,
                "boat1_name": "Gian Stragiotti",
                "boat2_name": "Karl Maeder",
                "avg_SOG_boat1": 27.1694045174538,
                "avg_SOG_boat2": 26.0905544147844,
                "SOG_variation_boat1": 0.7945210106979272,
                "SOG_variation_boat2": 1.1674746323131255,
                "stability_score": 0.9547757384676734,
                "avg TWA boat1": -151.40243531827517,
                "avg TWA boat2": -151.13577572016462
            }
        ]
    },
    {
        "run": "07_06_Run3",
        "intervals": [
            {
                "start_time": 1749298482.161,
                "end_time": 1749298544.164,
                "duration": 62.003000020980835,
                "boat1_name": "Gian Stragiotti",
                "boat2_name": "SenseBoard",
                "avg_SOG_boat1": 22.3768115942029,
                "avg_SOG_boat2": 22.30998389694042,
                "SOG_variation_boat1": 0.8131639589427351,
                "SOG_variation_boat2": 0.5512421454915069,
                "stability_score": 0.9617234182036005,
                "avg TWA boat1": 43.432024154589364,
                "avg TWA boat2": 44.034191935483875
            },
            {
                "start_time": 1749298672.858,
                "end_time": 1749298715.364,
                "duration": 42.50600004196167,
                "boat1_name": "Gian Stragiotti",
                "boat2_name": "SenseBoard",
                "avg_SOG_boat1": 26.421361502347416,
                "avg_SOG_boat2": 25.72840375586854,
                "SOG_variation_boat1": 1.272584780791708,
                "SOG_variation_boat2": 0.8302888435095636,
                "stability_score": 0.948748627453864,
            }
        ]
    }
]

```

```

        "avg TWA boat1": -154.05993896713616,
        "avg TWA boat2": -153.6456282352941
    }
],
{
    "run": "07_06_Run4",
    "intervals": [
        {
            "start_time": 1749299201.16,
            "end_time": 1749299256.957,
            "duration": 55.79699993133545,
            "boat1_name": "Gian Stragiotti",
            "boat2_name": "SenseBoard",
            "avg_SOG_boat1": 22.56815742397138,
            "avg_SOG_boat2": 22.151520572450806,
            "SOG_variation_boat1": 0.401282000581243,
            "SOG_variation_boat2": 0.40488993042407406,
            "stability_score": 0.9734072238703372,
            "avg TWA boat1": 44.10475134168158,
            "avg TWA boat2": 44.21044623655914
        }
    ]
},
{
    "run": "07_06_Run5",
    "intervals": [
        {
            "start_time": 1749299757.058,
            "end_time": 1749299823.864,
            "duration": 66.880599999427795,
            "boat1_name": "Gian Stragiotti",
            "boat2_name": "SenseBoard",
            "avg_SOG_boat1": 21.772496263079223,
            "avg_SOG_boat2": 22.079073243647233,
            "SOG_variation_boat1": 0.8300439451975229,
            "SOG_variation_boat2": 0.7481384336369988,
            "stability_score": 0.9534171638142162,
            "avg TWA boat1": 37.39404484304933,
            "avg TWA boat2": 37.37355455904335
        },
        {
            "start_time": 1749299957.076,
            "end_time": 1749300002.263,
            "duration": 45.187000036239624,
            "boat1_name": "Gian Stragiotti",
            "boat2_name": "SenseBoard",
            "avg_SOG_boat1": 26.671302428256066,
            "avg_SOG_boat2": 26.09359823399559,
            "SOG_variation_boat1": 0.7701955440236677,
            "SOG_variation_boat2": 0.778771773625049,
            "stability_score": 0.9616737321092284,
            "avg TWA boat1": -145.96590286975717,
            "avg TWA boat2": -142.77557522123894
        }
    ]
},
{
    "run": "07_06_Run6",
    "intervals": [
        {
            "start_time": 1749300406.267,
            "end_time": 1749300463.756,

```

```

    "duration": 57.48900008201599,
    "boat1_name": "Gian Stragiotti",
    "boat2_name": "SenseBoard",
    "avg_SOG_boat1": 23.195833333333333,
    "avg_SOG_boat2": 22.960416666666667,
    "SOG_variation_boat1": 0.6888301361886973,
    "SOG_variation_boat2": 0.7760294705295894,
    "stability_score": 0.9581830675524912,
    "avg TWA boat1": 53.600652777777778,
    "avg TWA boat2": 53.41760173913043
  },
  {
    "start_time": 1749300594.157,
    "end_time": 1749300632.26,
    "duration": 38.1029999256134,
    "boat1_name": "Gian Stragiotti",
    "boat2_name": "SenseBoard",
    "avg_SOG_boat1": 28.251832460732984,
    "avg_SOG_boat2": 26.881937172774872,
    "SOG_variation_boat1": 0.5685403267056057,
    "SOG_variation_boat2": 0.7157496418777685,
    "stability_score": 0.9717130279723044,
    "avg TWA boat1": -141.94490314136124,
    "avg TWA boat2": -142.37469473684212
  }
]
},
{
  "run": "07_06_Run7",
  "intervals": [
    {
      "start_time": 1749301208.552,
      "end_time": 1749301276.356,
      "duration": 67.80399990081787,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 21.933873343151696,
      "avg_SOG_boat2": 21.935493372606775,
      "SOG_variation_boat1": 1.0445256316356346,
      "SOG_variation_boat2": 0.7177630459613766,
      "stability_score": 0.9623063604159979,
      "avg TWA boat1": 48.16938733431517,
      "avg TWA boat2": 47.540169616519165
    },
    {
      "start_time": 1749301415.658,
      "end_time": 1749301457.157,
      "duration": 41.49900007247925,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 26.33076923076923,
      "avg_SOG_boat2": 26.25721153846154,
      "SOG_variation_boat1": 0.6994768334928197,
      "SOG_variation_boat2": 0.8057898398385431,
      "stability_score": 0.94906000930144912,
      "avg TWA boat1": -143.46581009615386,
      "avg TWA boat2": -142.24757004830917
    }
  ]
},
{
  "run": "07_06_Run8",
  "intervals": [

```

```
{
  "start_time": 1749301739.076,
  "end_time": 1749301801.155,
  "duration": 62.0789999961853,
  "boat1_name": "Karl Maeder",
  "boat2_name": "SenseBoard",
  "avg_SOG_boat1": 22.524919614147908,
  "avg_SOG_boat2": 22.74951768488746,
  "SOG_variation_boat1": 0.5330671829582392,
  "SOG_variation_boat2": 0.5809299769964135,
  "stability_score": 0.9655864159321811,
  "avg TWA boat1": 41.97196784565916,
  "avg TWA boat2": 41.890666129032255
},
{
  "start_time": 1749301914.859,
  "end_time": 1749301961.953,
  "duration": 47.09400010108948,
  "boat1_name": "Karl Maeder",
  "boat2_name": "SenseBoard",
  "avg_SOG_boat1": 27.379025423728816,
  "avg_SOG_boat2": 27.6625,
  "SOG_variation_boat1": 0.8091860497107752,
  "SOG_variation_boat2": 0.8184785351654248,
  "stability_score": 0.9616375431561365,
  "avg TWA boat1": -148.05330720338983,
  "avg TWA boat2": -147.50978510638302
}
],
},
{
  "run": "07_06_Run9",
  "intervals": [
    {
      "start_time": 1749302229.658,
      "end_time": 1749302292.46,
      "duration": 62.80200004577637,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.486645468998407,
      "avg_SOG_boat2": 22.53608903020668,
      "SOG_variation_boat1": 0.6218267494031011,
      "SOG_variation_boat2": 0.4460205841525167,
      "stability_score": 0.9670551969484428,
      "avg TWA boat1": 37.2340906200318,
      "avg TWA boat2": 37.22738155802862
    },
    {
      "start_time": 1749302396.448,
      "end_time": 1749302440.459,
      "duration": 44.01100015640259,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 28.447392290249432,
      "avg_SOG_boat2": 28.581179138321993,
      "SOG_variation_boat1": 0.6630842211928816,
      "SOG_variation_boat2": 0.7550342961025506,
      "stability_score": 0.9651754089517661,
      "avg TWA boat1": -147.36239002267575,
      "avg TWA boat2": -146.5883696145125
    }
  ]
},
}
```

```
{
  "run": "09_06_Run1",
  "intervals": [
    {
      "start_time": 1749470010.46,
      "end_time": 1749470042.542,
      "duration": 32.0820001716614,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "Karl Maeder",
      "avg_SOG_boat1": 22.93416149068323,
      "avg_SOG_boat2": 22.669875776397518,
      "SOG_variation_boat1": 0.48260786763356933,
      "SOG_variation_boat2": 0.466035827614264,
      "stability_score": 0.9512635432915371,
      "avg TWA boat1": 44.21146894409938,
      "avg TWA boat2": 45.016159375
    }
  ],
  {
    "run": "09_06_Run10",
    "intervals": [
      {
        "start_time": 1749475477.855,
        "end_time": 1749475539.06,
        "duration": 61.204999923706055,
        "boat1_name": "Karl Maeder",
        "boat2_name": "SenseBoard",
        "avg_SOG_boat1": 23.155464926590536,
        "avg_SOG_boat2": 23.533442088091356,
        "SOG_variation_boat1": 0.4172626962395209,
        "SOG_variation_boat2": 0.4660087049211628,
        "stability_score": 0.9685558287592516,
        "avg TWA boat1": 53.63761990212071,
        "avg TWA boat2": 53.313418300653595
      },
      {
        "start_time": 1749475654.454,
        "end_time": 1749475704.256,
        "duration": 49.80200004577637,
        "boat1_name": "Karl Maeder",
        "boat2_name": "SenseBoard",
        "avg_SOG_boat1": 26.750901803607217,
        "avg_SOG_boat2": 27.055511022044087,
        "SOG_variation_boat1": 0.5265769855048806,
        "SOG_variation_boat2": 0.556149167909675,
        "stability_score": 0.967040276958964,
        "avg TWA boat1": -141.5574108216433,
        "avg TWA boat2": -141.35800401606423
      }
    ],
    {
      "run": "09_06_Run11",
      "intervals": [
        {
          "start_time": 1749476052.564,
          "end_time": 1749476119.654,
          "duration": 67.09000015258789,
          "boat1_name": "Karl Maeder",
          "boat2_name": "SenseBoard",
          "avg_SOG_boat1": 22.59032738095238,
          "avg_SOG_boat2": 22.65357142857143,
        }
      ]
    }
  ]
}
```

```

    "SOG_variation_boat1": 0.6936663946225158,
    "SOG_variation_boat2": 0.6433790136832493,
    "stability_score": 0.957127357613573,
    "avg TWA boat1": 52.5763244047619,
    "avg TWA boat2": 52.12876154992549
  },
  {
    "start_time": 1749476236.256,
    "end_time": 1749476288.852,
    "duration": 52.59599995613098,
    "boat1_name": "Karl Maeder",
    "boat2_name": "SenseBoard",
    "avg_SOG_boat1": 25.45749525616698,
    "avg_SOG_boat2": 25.68709677419355,
    "SOG_variation_boat1": 0.595943023245209,
    "SOG_variation_boat2": 1.301806479623148,
    "stability_score": 0.9622185408950876,
    "avg TWA boat1": -143.12540796963947,
    "avg TWA boat2": -144.06554562737642
  }
]
},
{
  "run": "09_06_Run2",
  "intervals": []
},
{
  "run": "09_06_Run4",
  "intervals": [
    {
      "start_time": 1749472118.849,
      "end_time": 1749472181.65,
      "duration": 62.801000118255615,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 23.74006359300477,
      "avg_SOG_boat2": 24.408267090620033,
      "SOG_variation_boat1": 0.32204164944144703,
      "SOG_variation_boat2": 0.4157278383213897,
      "stability_score": 0.9756446070411259,
      "avg TWA boat1": 49.306181240063594,
      "avg TWA boat2": 49.00578980891719
    },
    {
      "start_time": 1749472268.356,
      "end_time": 1749472312.65,
      "duration": 44.29400014877319,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 27.6213963963964,
      "avg_SOG_boat2": 28.11644144144144,
      "SOG_variation_boat1": 0.849627104813067,
      "SOG_variation_boat2": 0.5257048959698549,
      "stability_score": 0.9623474927915108,
      "avg TWA boat1": -134.64182882882884,
      "avg TWA boat2": -134.72823702031604
    }
  ]
},
{
  "run": "09_06_Run5",
  "intervals": [
    {
      "start_time": 1749472312.65,
      "end_time": 1749472346.45,
      "duration": 33.80000014877319,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 28.11644144144144,
      "avg_SOG_boat2": 28.11644144144144,
      "SOG_variation_boat1": 0.5257048959698549,
      "SOG_variation_boat2": 0.5257048959698549,
      "stability_score": 0.9623474927915108,
      "avg TWA boat1": -134.72823702031604,
      "avg TWA boat2": -134.72823702031604
    }
  ]
}
]
```

```

        "start_time": 1749472664.452,
        "end_time": 1749472733.165,
        "duration": 68.71300005912781,
        "boat1_name": "Karl Maeder",
        "boat2_name": "SenseBoard",
        "avg_SOG_boat1": 22.652034883720933,
        "avg_SOG_boat2": 22.781976744186046,
        "SOG_variation_boat1": 0.46256853800013753,
        "SOG_variation_boat2": 0.821700327894289,
        "stability_score": 0.9586871555224339,
        "avg TWA boat1": 48.7127398255814,
        "avg TWA boat2": 48.23567103347889
    }
],
},
{
    "run": "09_06_Run6",
    "intervals": [
        {
            "start_time": 1749473152.452,
            "end_time": 1749473220.452,
            "duration": 68.0,
            "boat1_name": "Karl Maeder",
            "boat2_name": "SenseBoard",
            "avg_SOG_boat1": 23.03303964757709,
            "avg_SOG_boat2": 23.575477239353894,
            "SOG_variation_boat1": 0.5131314014854907,
            "SOG_variation_boat2": 0.47743257900555647,
            "stability_score": 0.9744204774376893,
            "avg TWA boat1": 48.00279735682819,
            "avg TWA boat2": 47.65900294117647
        },
        {
            "start_time": 1749473314.961,
            "end_time": 1749473362.253,
            "duration": 47.29200005531311,
            "boat1_name": "Karl Maeder",
            "boat2_name": "SenseBoard",
            "avg_SOG_boat1": 26.858227848101265,
            "avg_SOG_boat2": 27.347257383966245,
            "SOG_variation_boat1": 0.9562666476793272,
            "SOG_variation_boat2": 0.9439934006012783,
            "stability_score": 0.947487140959874,
            "avg TWA boat1": -137.5699430379747,
            "avg TWA boat2": -137.814531779661
        }
    ]
},
{
    "run": "09_06_Run7",
    "intervals": [
        {
            "start_time": 1749473644.561,
            "end_time": 1749473713.441,
            "duration": 68.87999987602234,
            "boat1_name": "Karl Maeder",
            "boat2_name": "SenseBoard",
            "avg_SOG_boat1": 22.484492753623186,
            "avg_SOG_boat2": 22.590289855072463,
            "SOG_variation_boat1": 0.5271773185574329,
            "SOG_variation_boat2": 0.481809816843384,
            "stability_score": 0.9725206272449781,
            "avg TWA boat1": 49.11989275362319,
            "avg TWA boat2": 49.11989275362319
        }
    ]
}
]
}

```

```

    "avg TWA boat2": 47.80012354651163
  },
  {
    "start_time": 1749473793.36,
    "end_time": 1749473827.653,
    "duration": 34.29300022125244,
    "boat1_name": "Karl Maeder",
    "boat2_name": "SenseBoard",
    "avg_SOG_boat1": 27.270639534883717,
    "avg_SOG_boat2": 27.467441860465115,
    "SOG_variation_boat1": 0.3075979509419556,
    "SOG_variation_boat2": 0.4363757068660953,
    "stability_score": 0.9731867204076343,
    "avg TWA boat1": -142.399125,
    "avg TWA boat2": -141.92563450292397
  }
]
},
{
  "run": "09_06_Run8",
  "intervals": [
    {
      "start_time": 1749474326.852,
      "end_time": 1749474388.641,
      "duration": 61.789000034332275,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.98788368336026,
      "avg_SOG_boat2": 23.934894991922455,
      "SOG_variation_boat1": 0.8467710683012128,
      "SOG_variation_boat2": 0.5286703541190796,
      "stability_score": 0.9622994570570873,
      "avg TWA boat1": 56.368471728594514,
      "avg TWA boat2": 56.132697411003235
    },
    {
      "start_time": 1749474493.854,
      "end_time": 1749474541.045,
      "duration": 47.19099998474121,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 26.936997885835094,
      "avg_SOG_boat2": 28.12811839323467,
      "SOG_variation_boat1": 0.7666824539305778,
      "SOG_variation_boat2": 0.6466930633281409,
      "stability_score": 0.9627796173107166,
      "avg TWA boat1": -142.5215644820296,
      "avg TWA boat2": -142.49367940552017
    }
  ]
},
{
  "run": "09_06_Run9",
  "intervals": [
    {
      "start_time": 1749474938.364,
      "end_time": 1749475007.056,
      "duration": 68.69199991226196,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.307558139534883,
      "avg_SOG_boat2": 22.687063953488373,
      "SOG_variation_boat1": 0.5431600589134501,

```

```

    "SOG_variation_boat2": 0.6840614956417097,
    "stability_score": 0.9646825750124971,
    "avg TWA boat1": 41.60781976744186,
    "avg TWA boat2": 41.441870451237264
  },
  {
    "start_time": 1749475120.453,
    "end_time": 1749475174.256,
    "duration": 53.80299997329712,
    "boat1_name": "Karl Maeder",
    "boat2_name": "SenseBoard",
    "avg_SOG_boat1": 26.241558441558443,
    "avg_SOG_boat2": 26.94601113172542,
    "SOG_variation_boat1": 1.0217059599533802,
    "SOG_variation_boat2": 0.9318197050401614,
    "stability_score": 0.9458172931147468,
    "avg TWA boat1": -141.57092949907235,
    "avg TWA boat2": -141.8663840445269
  }
],
},
{
  "run": "10_06_Run1",
  "intervals": [
    {
      "start_time": 1749558508.753,
      "end_time": 1749558582.059,
      "duration": 73.38599999427795,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 21.688283378746593,
      "avg_SOG_boat2": 21.445367847411443,
      "SOG_variation_boat1": 0.653690579620312,
      "SOG_variation_boat2": 0.34356141868005996,
      "stability_score": 0.9696679129386098,
      "avg TWA boat1": 52.140115803814716,
      "avg TWA boat2": 52.74440927694407
    },
    {
      "start_time": 1749558678.071,
      "end_time": 1749558732.858,
      "duration": 54.78699994087219,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 26.093624772313298,
      "avg_SOG_boat2": 25.469581056466303,
      "SOG_variation_boat1": 0.3462723462527339,
      "SOG_variation_boat2": 0.42120353204467675,
      "stability_score": 0.9730459562174268,
      "avg TWA boat1": -124.37445901639343,
      "avg TWA boat2": -125.1762262773723
    }
  ],
},
{
  "run": "10_06_Run10",
  "intervals": [
    {
      "start_time": 1749563342.953,
      "end_time": 1749563410.858,
      "duration": 67.90499997138977,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 26.241558441558443,
      "avg_SOG_boat2": 26.94601113172542,
      "SOG_variation_boat1": 1.0217059599533802,
      "SOG_variation_boat2": 0.9318197050401614,
      "stability_score": 0.9458172931147468,
      "avg TWA boat1": -141.57092949907235,
      "avg TWA boat2": -141.8663840445269
    }
  ]
}
]
}

```

```

    "avg_SOG_boat1": 23.015,
    "avg_SOG_boat2": 23.117941176470588,
    "SOG_variation_boat1": 0.43262904891108317,
    "SOG_variation_boat2": 0.5455417348453856,
    "stability_score": 0.9576695119047643,
    "avg TWA boat1": 51.58674705882353,
    "avg TWA boat2": 51.04122941176472
  }
],
},
{
  "run": "10_06_Run2",
  "intervals": [
    {
      "start_time": 1749558992.654,
      "end_time": 1749559054.755,
      "duration": 62.1010000705719,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.768167202572346,
      "avg_SOG_boat2": 22.051125401929262,
      "SOG_variation_boat1": 0.7741700772777428,
      "SOG_variation_boat2": 0.6155188589560149,
      "stability_score": 0.9661567984326258,
      "avg TWA boat1": 52.30156270096463,
      "avg TWA boat2": 52.145245980707394
    },
    {
      "start_time": 1749559167.753,
      "end_time": 1749559222.144,
      "duration": 54.39100003242493,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 25.846055045871555,
      "avg_SOG_boat2": 25.106972477064218,
      "SOG_variation_boat1": 0.7194692927018169,
      "SOG_variation_boat2": 0.7702815382301164,
      "stability_score": 0.962776797422723,
      "avg TWA boat1": -127.73065321100918,
      "avg TWA boat2": -127.0197661141805
    }
  ]
},
{
  "run": "10_06_Run3",
  "intervals": [
    {
      "start_time": 1749559443.953,
      "end_time": 1749559513.154,
      "duration": 69.20099997520447,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.099278499278498,
      "avg_SOG_boat2": 22.045021645021645,
      "SOG_variation_boat1": 0.7148200380354032,
      "SOG_variation_boat2": 0.5779364885443138,
      "stability_score": 0.9637924299775269,
      "avg TWA boat1": 49.995786435786435,
      "avg TWA boat2": 50.876849710982654
    },
    {
      "start_time": 1749559627.953,
      "end_time": 1749559676.354,
      "duration": 48.40099997520447
    }
  ]
}
]
}

```

```

    "duration": 48.401000022888184,
    "boat1_name": "Gian Stragiotti",
    "boat2_name": "SenseBoard",
    "avg_SOG_boat1": 27.7280412371134,
    "avg_SOG_boat2": 26.803505154639176,
    "SOG_variation_boat1": 0.48782414350891035,
    "SOG_variation_boat2": 0.5967613024843319,
    "stability_score": 0.970534801199097,
    "avg TWA boat1": -133.17295463917526,
    "avg TWA boat2": -132.24709917355372
  },
]
},
{
  "run": "10_06_Run4",
  "intervals": [
    {
      "start_time": 1749560154.753,
      "end_time": 1749560208.072,
      "duration": 53.319000005722046,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 26.68239700374532,
      "avg_SOG_boat2": 25.471910112359552,
      "SOG_variation_boat1": 0.3954585811078938,
      "SOG_variation_boat2": 0.4432496653425174,
      "stability_score": 0.9735561698878598,
      "avg TWA boat1": -135.37653558052435,
      "avg TWA boat2": -135.27015759849908
    },
    {
      "start_time": 1749559968.055,
      "end_time": 1749560020.046,
      "duration": 51.990999937057495,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 23.940882917466407,
      "avg_SOG_boat2": 23.243186180422267,
      "SOG_variation_boat1": 0.253889716586543,
      "SOG_variation_boat2": 0.2897555698691407,
      "stability_score": 0.973918519280143,
      "avg TWA boat1": 55.89349328214971,
      "avg TWA boat2": 54.93533461538461
    }
  ],
},
{
  "run": "10_06_Run5",
  "intervals": [
    {
      "start_time": 1749560536.155,
      "end_time": 1749560597.354,
      "duration": 61.199000120162964,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.025285481239806,
      "avg_SOG_boat2": 22.11337683523654,
      "SOG_variation_boat1": 0.5005847480056898,
      "SOG_variation_boat2": 0.44646452469984443,
      "stability_score": 0.9663098809174583,
      "avg TWA boat1": 53.364595432300156,
      "avg TWA boat2": 53.518686274509804
    },
  ]
}

```

```
{
  "start_time": 1749560724.157,
  "end_time": 1749560771.956,
  "duration": 47.79900002479553,
  "boat1_name": "Gian Stragiotti",
  "boat2_name": "SenseBoard",
  "avg_SOG_boat1": 27.096033402922757,
  "avg_SOG_boat2": 26.642797494780798,
  "SOG_variation_boat1": 0.661275652373244,
  "SOG_variation_boat2": 0.6862557608982934,
  "stability_score": 0.9616481492402572,
  "avg TWA boat1": -138.87261169102297,
  "avg TWA boat2": -138.84397703549064
}
]
},
{
  "run": "10_06_Run6",
  "intervals": [
    {
      "start_time": 1749561187.052,
      "end_time": 1749561246.953,
      "duration": 59.901000022888184,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 23.192,
      "avg_SOG_boat2": 23.586166666666667,
      "SOG_variation_boat1": 0.4758642081248499,
      "SOG_variation_boat2": 0.45044067336619736,
      "stability_score": 0.9621821189963834,
      "avg TWA boat1": 50.299209999999995,
      "avg TWA boat2": 51.89534557595993
    },
    {
      "start_time": 1749561363.049,
      "end_time": 1749561405.263,
      "duration": 42.21399998664856,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 27.282269503546107,
      "avg_SOG_boat2": 26.92482269503546,
      "SOG_variation_boat1": 0.433373795501071,
      "SOG_variation_boat2": 0.6449390318040755,
      "stability_score": 0.9674756220226159,
      "avg TWA boat1": -139.59860047281325,
      "avg TWA boat2": -138.77927251184835
    }
  ]
},
{
  "run": "10_06_Run7",
  "intervals": [
    {
      "start_time": 1749561744.755,
      "end_time": 1749561812.555,
      "duration": 67.7999995231628,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.583210603829162,
      "avg_SOG_boat2": 22.736082474226805,
      "SOG_variation_boat1": 0.4064534734530918,
      "SOG_variation_boat2": 0.47771268469360634,
      "stability_score": 0.9673413662267509,
    }
  ]
}
```

```

    "avg TWA boat1": 52.990904270986746,
    "avg TWA boat2": 52.44766371681416
  },
  {
    "start_time": 1749561924.157,
    "end_time": 1749561975.263,
    "duration": 51.10599994659424,
    "boat1_name": "Karl Maeder",
    "boat2_name": "SenseBoard",
    "avg_SOG_boat1": 27.2220703125,
    "avg_SOG_boat2": 27.58359375,
    "SOG_variation_boat1": 0.5013496568388439,
    "SOG_variation_boat2": 0.48395425116547436,
    "stability_score": 0.9756249057051376,
    "avg TWA boat1": -140.14205468749998,
    "avg TWA boat2": -140.84758984375
  }
]
},
{
  "run": "10_06_Run8",
  "intervals": [
    {
      "start_time": 1749562365.356,
      "end_time": 1749562427.954,
      "duration": 62.598000049591064,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.51658692185008,
      "avg_SOG_boat2": 23.037958532695374,
      "SOG_variation_boat1": 0.5122266995322216,
      "SOG_variation_boat2": 0.3443208505420073,
      "stability_score": 0.9738003608627106,
      "avg TWA boat1": 46.96074481658692,
      "avg TWA boat2": 46.02180990415335
    },
    {
      "start_time": 1749562537.657,
      "end_time": 1749562585.552,
      "duration": 47.894999980926514,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 27.33354166666667,
      "avg_SOG_boat2": 27.5,
      "SOG_variation_boat1": 0.5399102592381619,
      "SOG_variation_boat2": 0.4688635040032667,
      "stability_score": 0.967918113005577,
      "avg TWA boat1": -141.7481833333332,
      "avg TWA boat2": -141.80634728033473
    }
  ]
},
{
  "run": "10_06_Run9",
  "intervals": [
    {
      "start_time": 1749562781.26,
      "end_time": 1749562847.457,
      "duration": 66.19700002670288,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 22.90346907993967,
      "avg_SOG_boat2": 23.240422322775263,
    }
  ]
}

```

```
"SOG_variation_boat1": 0.5458190734121626,  
"SOG_variation_boat2": 0.5352480320516277,  
"stability_score": 0.9665584620353262,  
"avg TWA boat1": 48.43236500754148,  
"avg TWA boat2": 48.93901812688822  
},  
{  
    "start_time": 1749562948.459,  
    "end_time": 1749562995.342,  
    "duration": 46.882999897003174,  
    "boat1_name": "Karl Maeder",  
    "boat2_name": "SenseBoard",  
    "avg_SOG_boat1": 26.97276595744681,  
    "avg_SOG_boat2": 27.57255319148936,  
    "SOG_variation_boat1": 0.6785337953400632,  
    "SOG_variation_boat2": 0.48984557892715896,  
    "stability_score": 0.9723012641797767,  
    "avg TWA boat1": -141.96290425531916,  
    "avg TWA boat2": -142.04973931623934  
}  
]  
}  
]
```

In []: