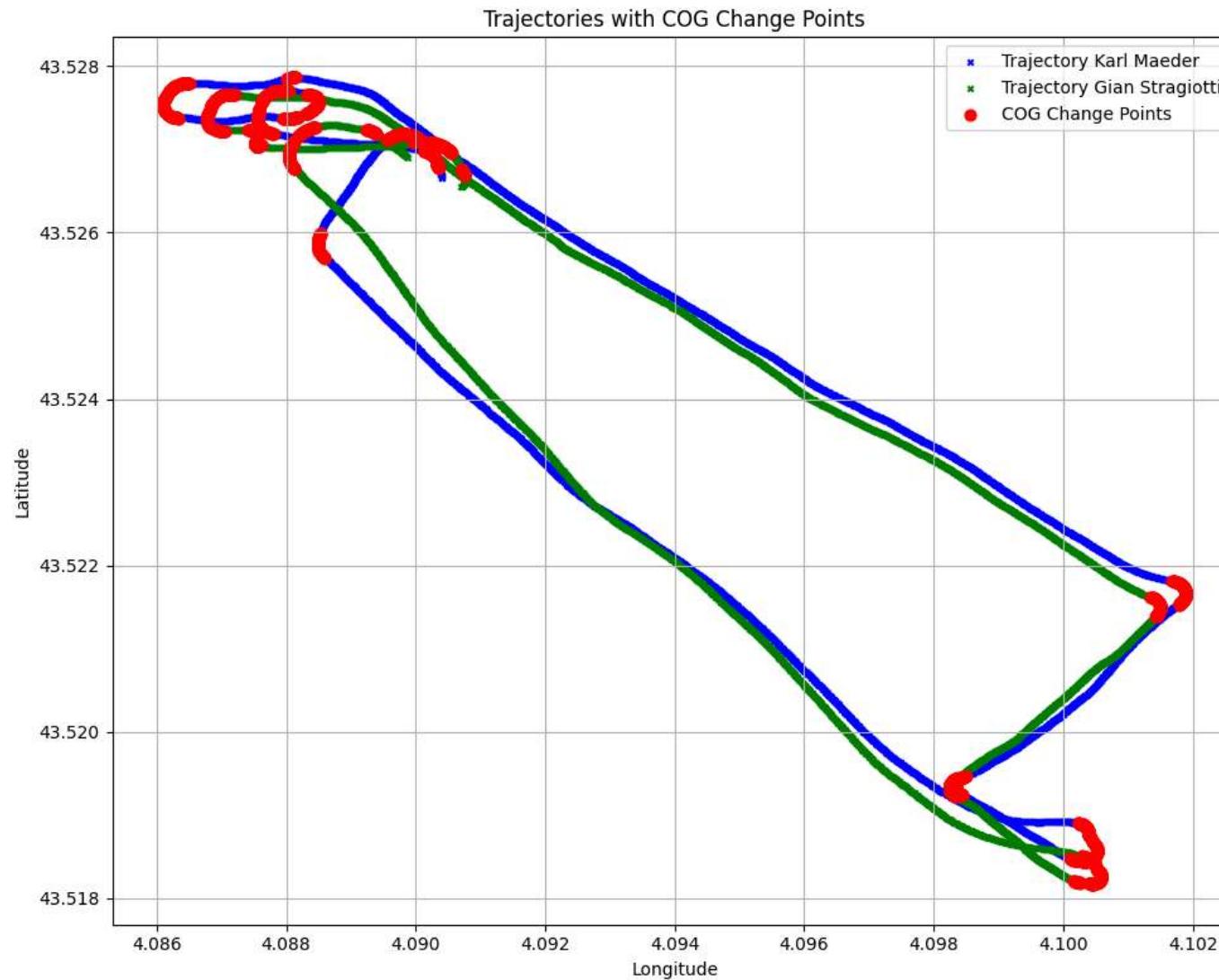
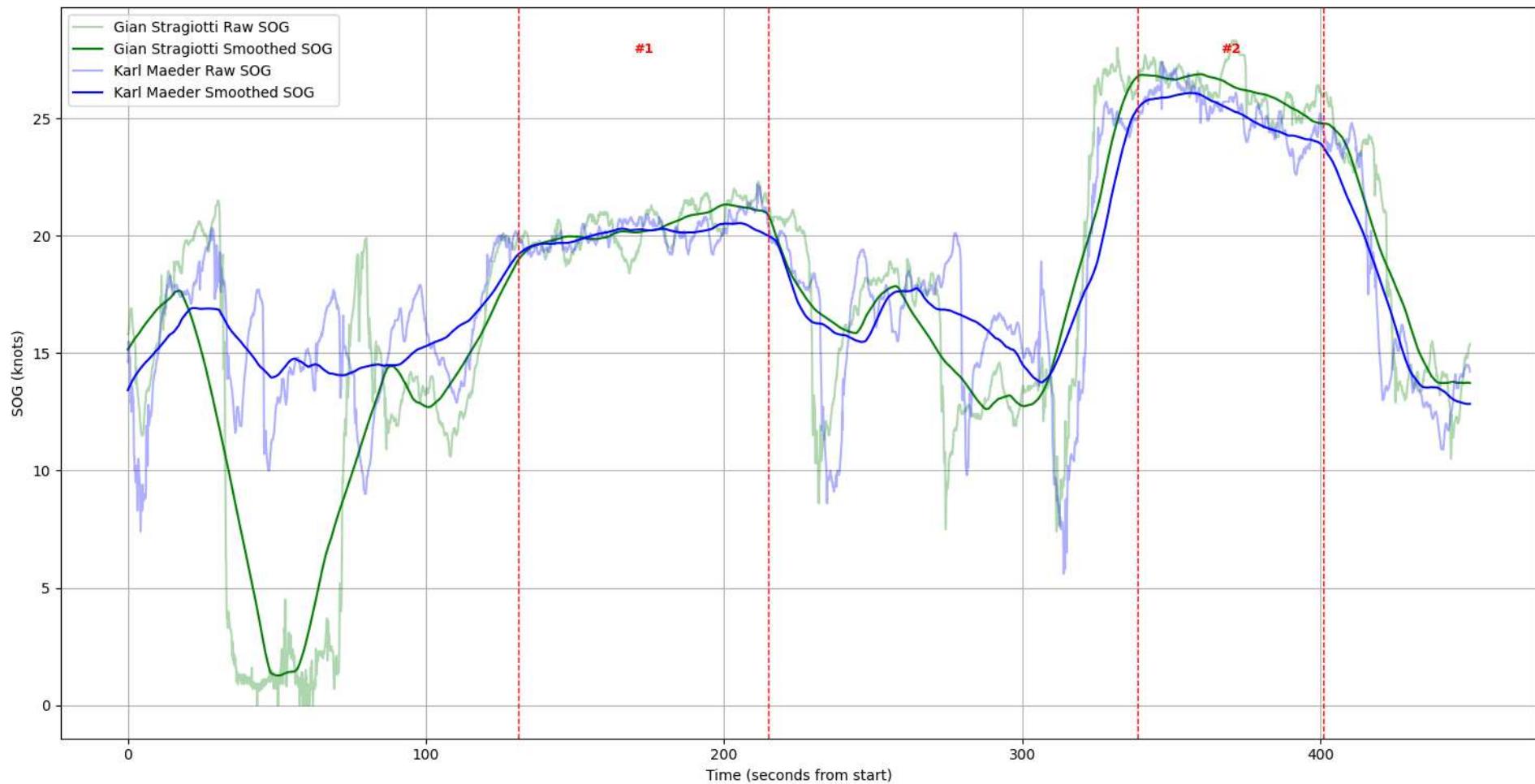


```
In [1]:  
import os  
import json  
from cog_analysis import analyze_session  
from natsort import natsorted  
summary = []  
  
base_dir = "../Data_Sailnjord/Straight_lines"  
  
# Scan de tous les dossiers de date  
for date_folder in sorted(os.listdir(base_dir)):  
    date_path = os.path.join(base_dir, date_folder)  
  
    # Scan de tous les runs dans chaque dossier de date  
    for run_folder in natsorted(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 sauvégarde ({len(summary)} runs)")
```

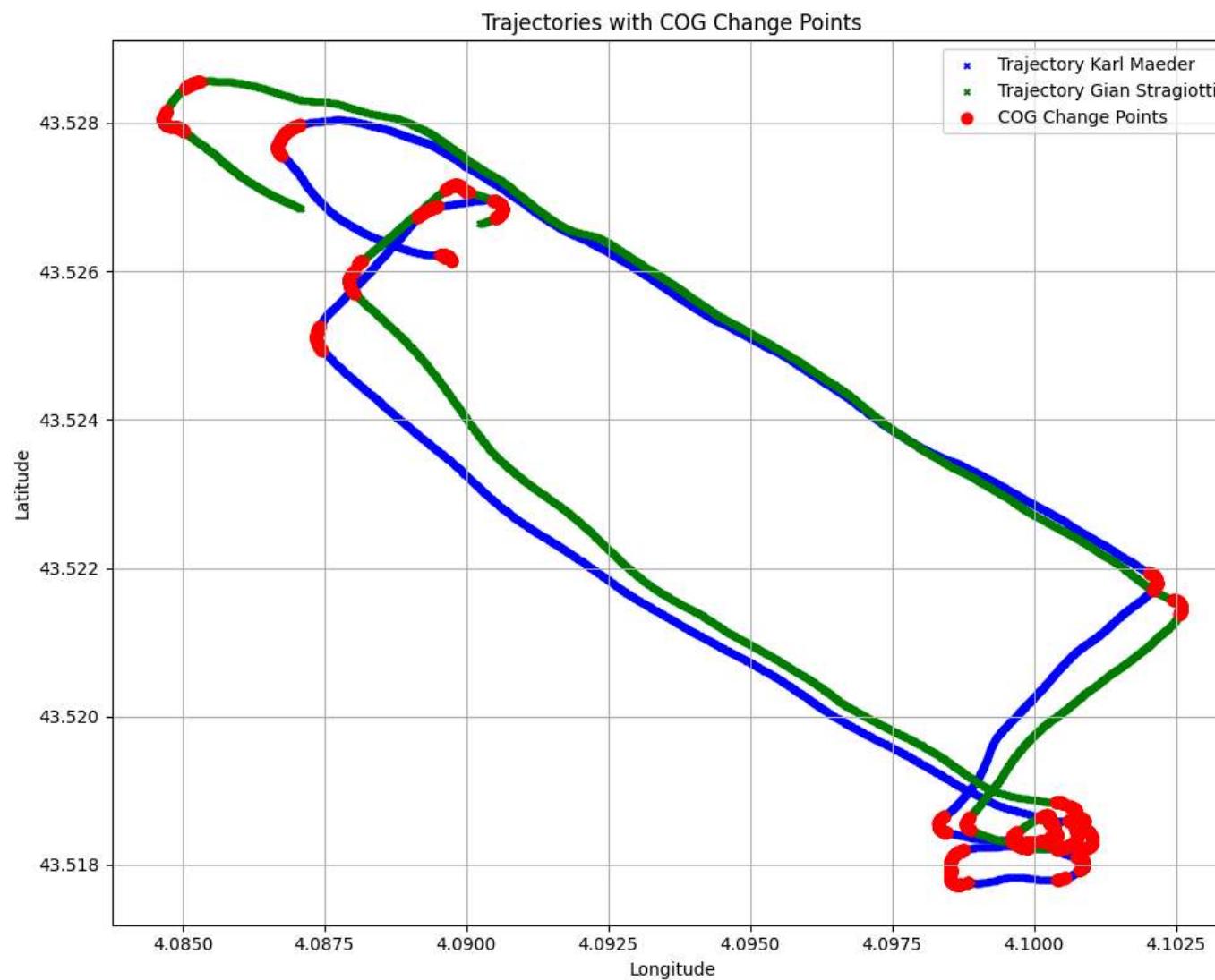
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ../Data_Sailnjord/Straight_lines\06_06\06_06_Run1

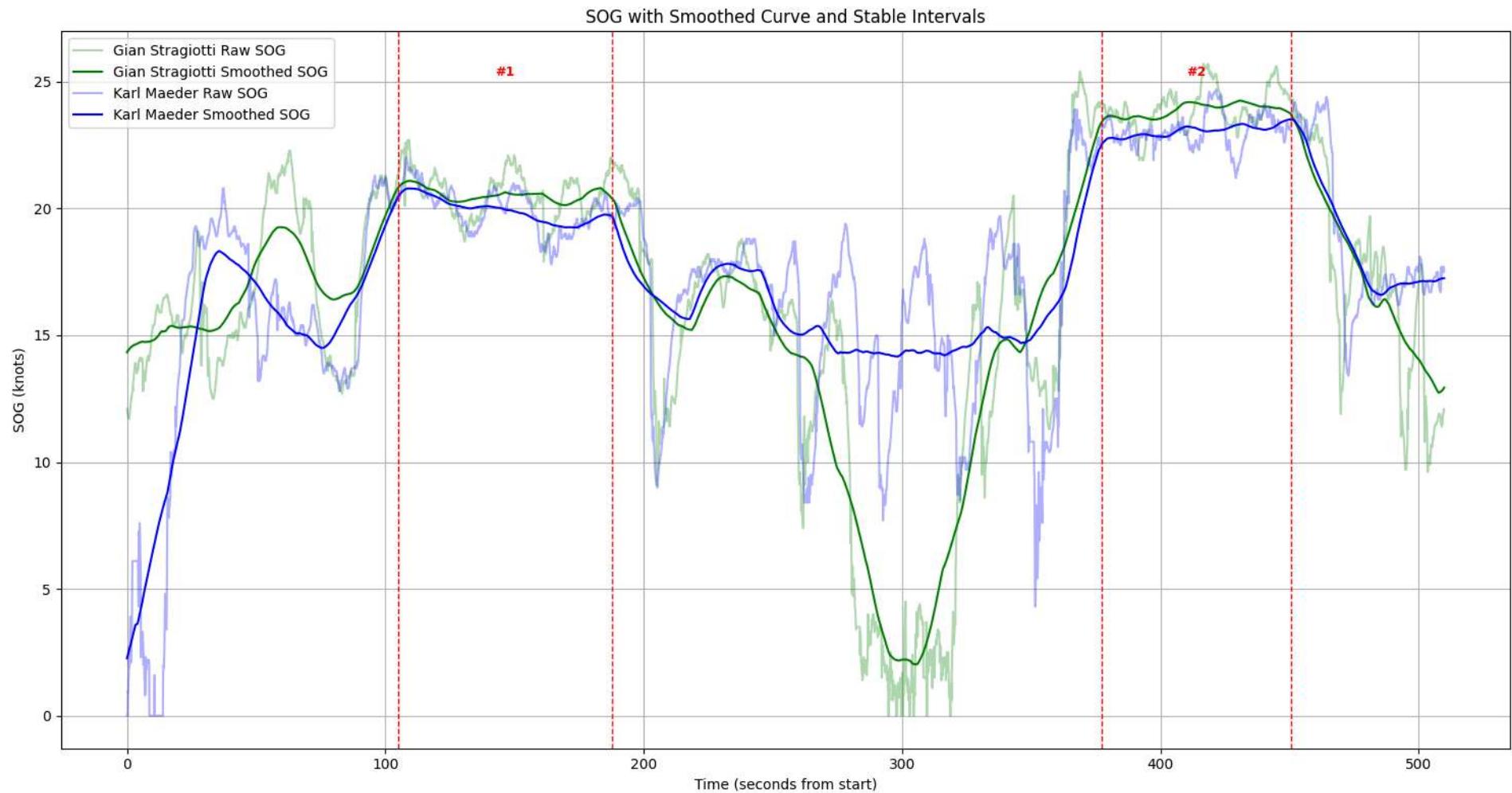


SOG with Smoothed Curve and Stable Intervals

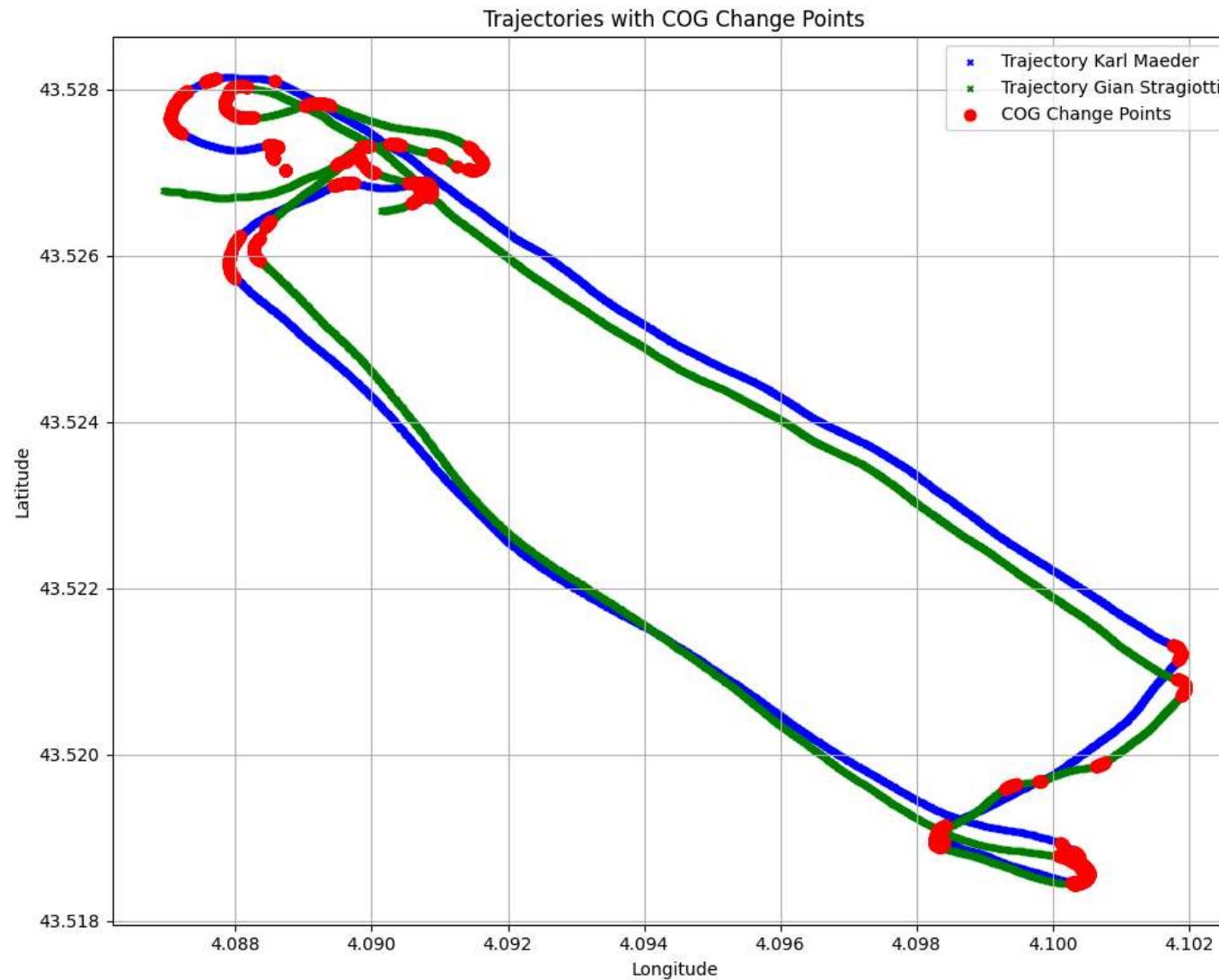


Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\06_06\06_06_Run2

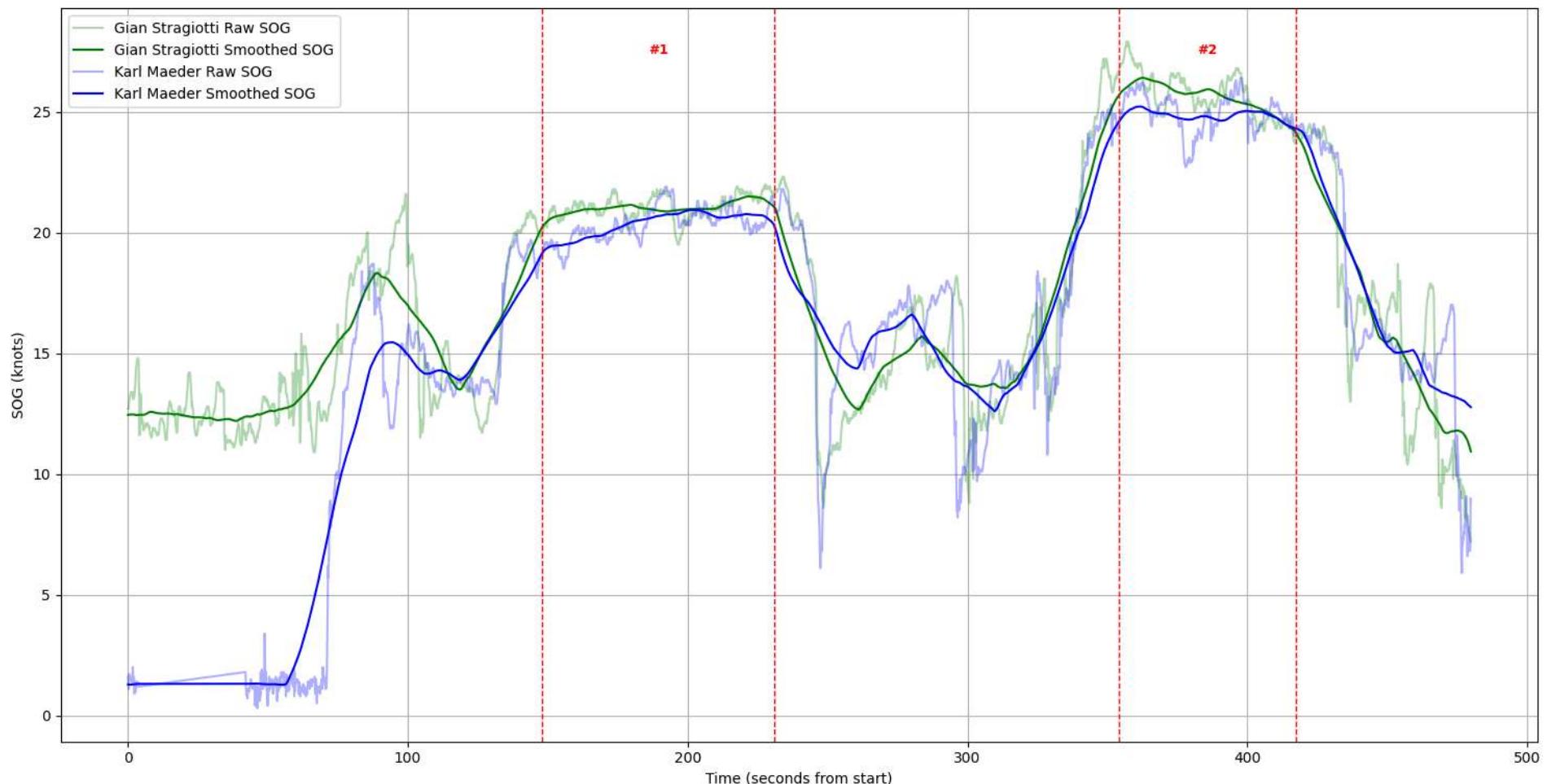




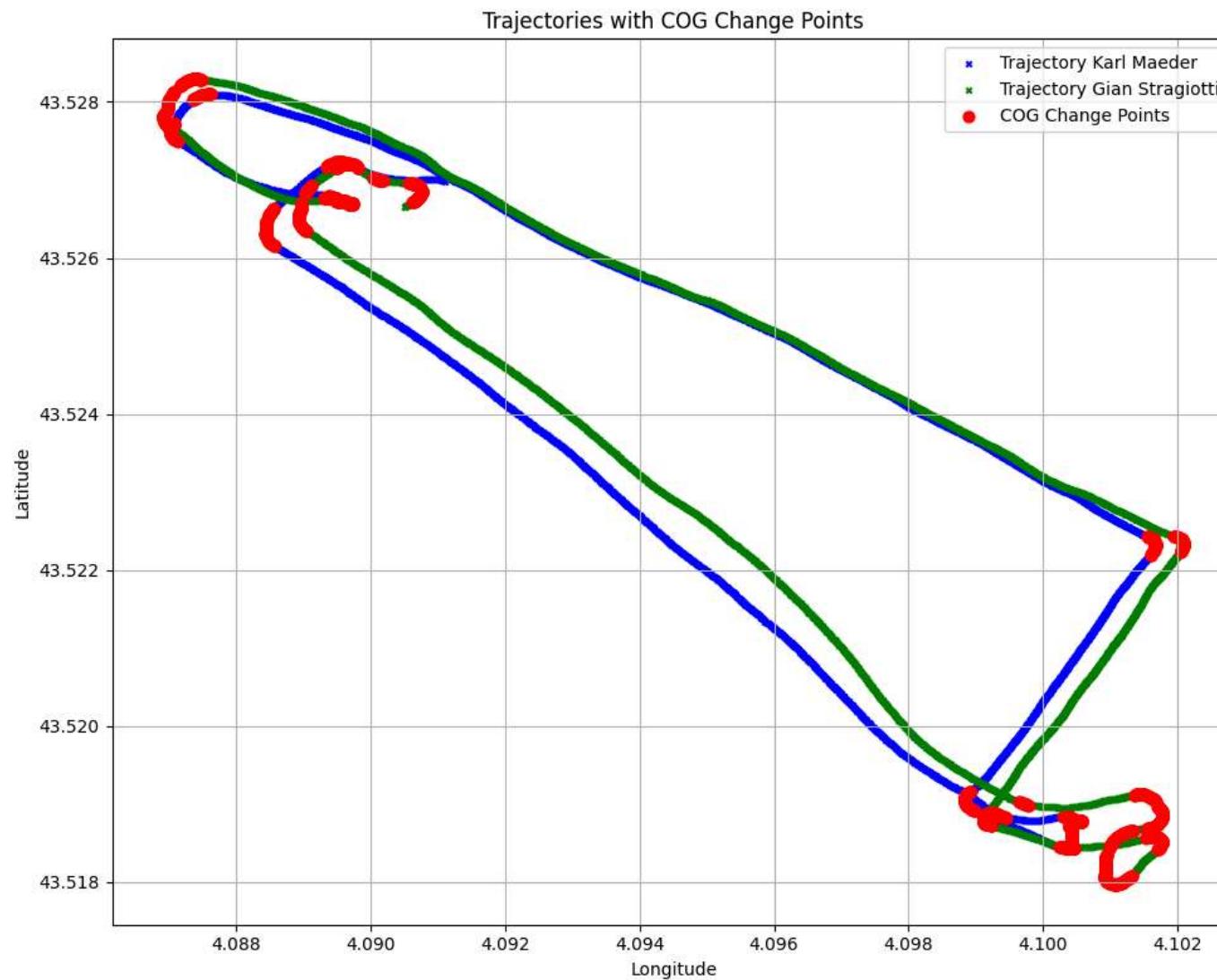
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\06_06\06_06_Run3



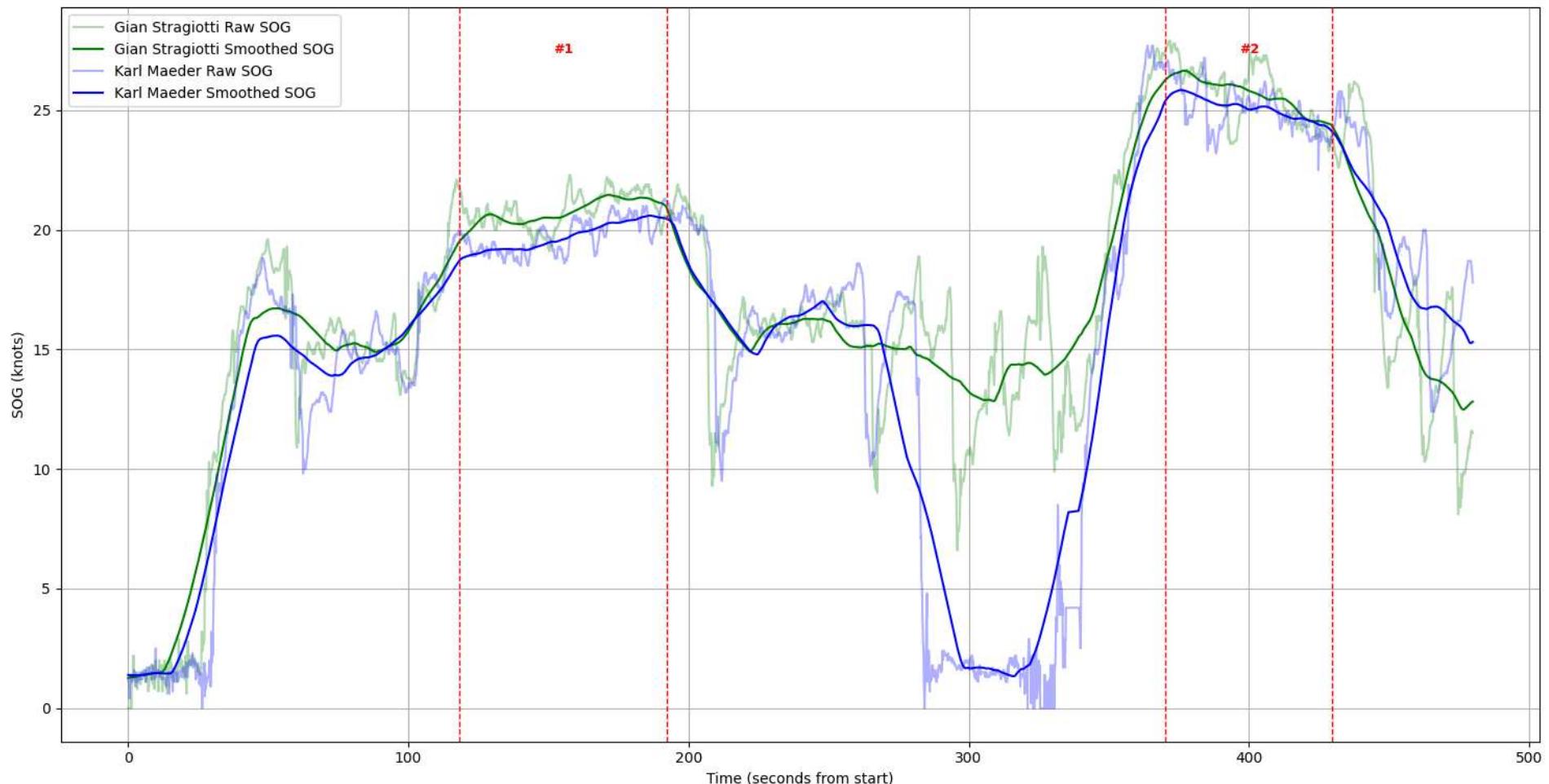
SOG with Smoothed Curve and Stable Intervals



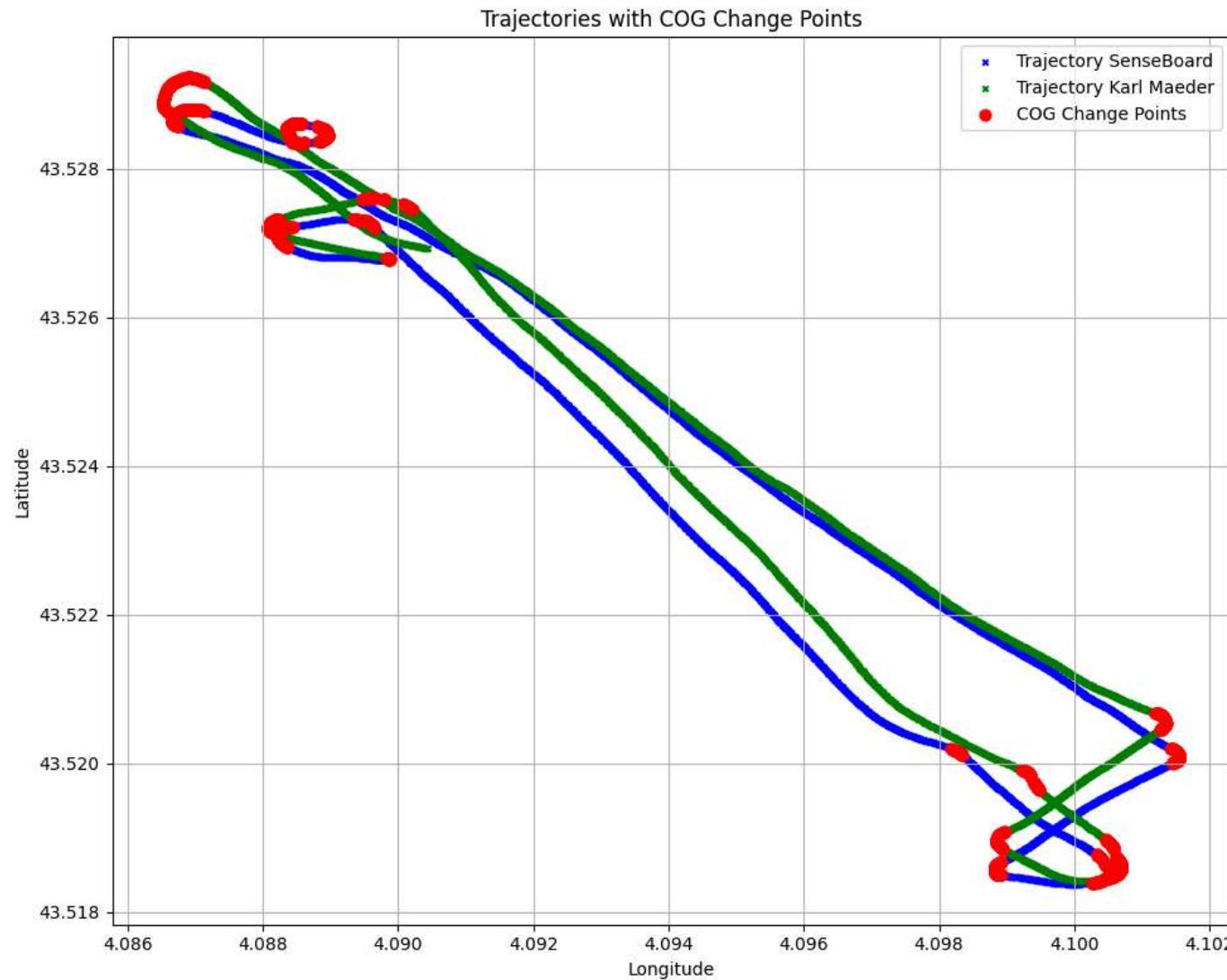
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\06_06\06_06_Run4

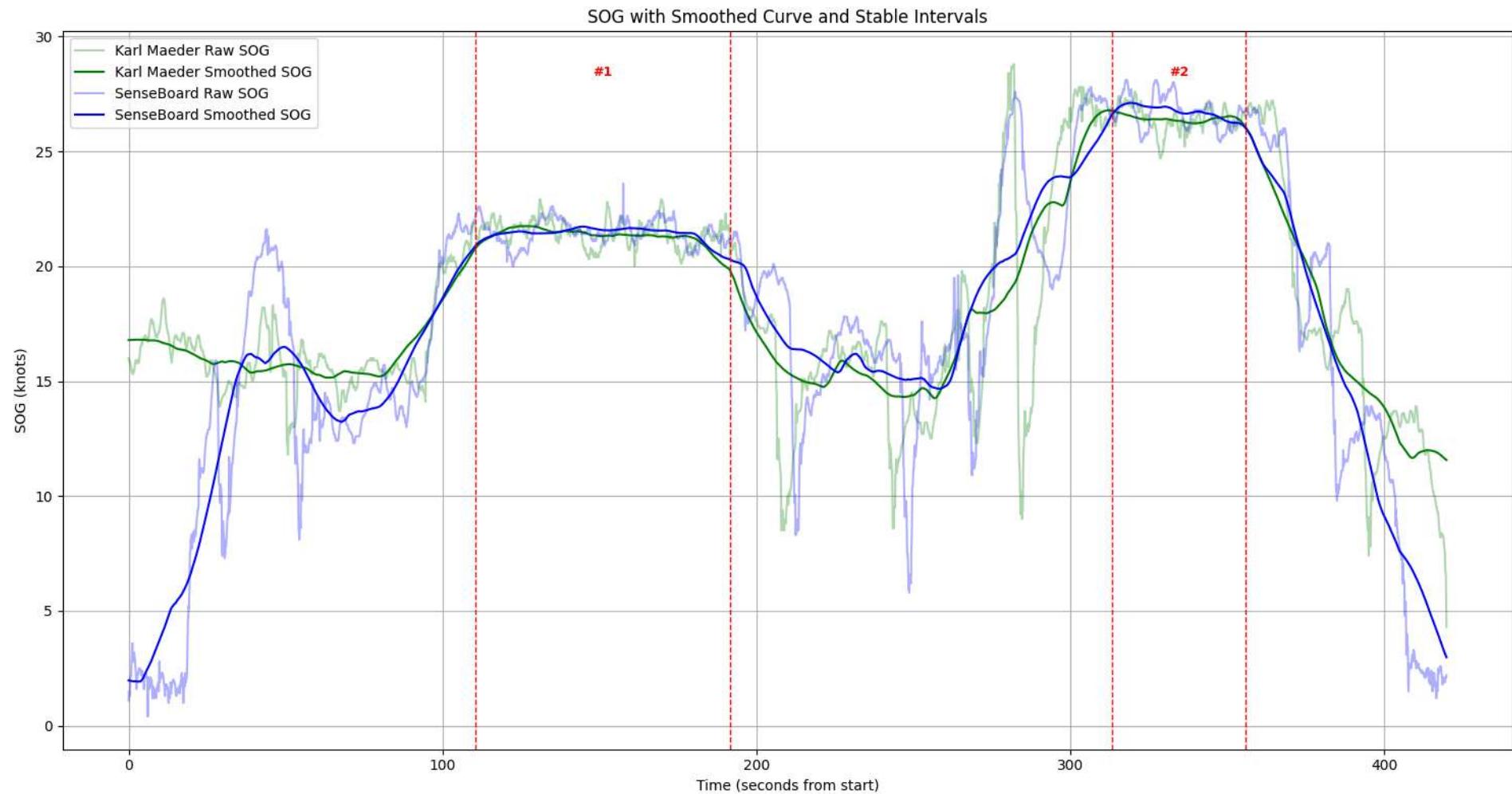


SOG with Smoothed Curve and Stable Intervals

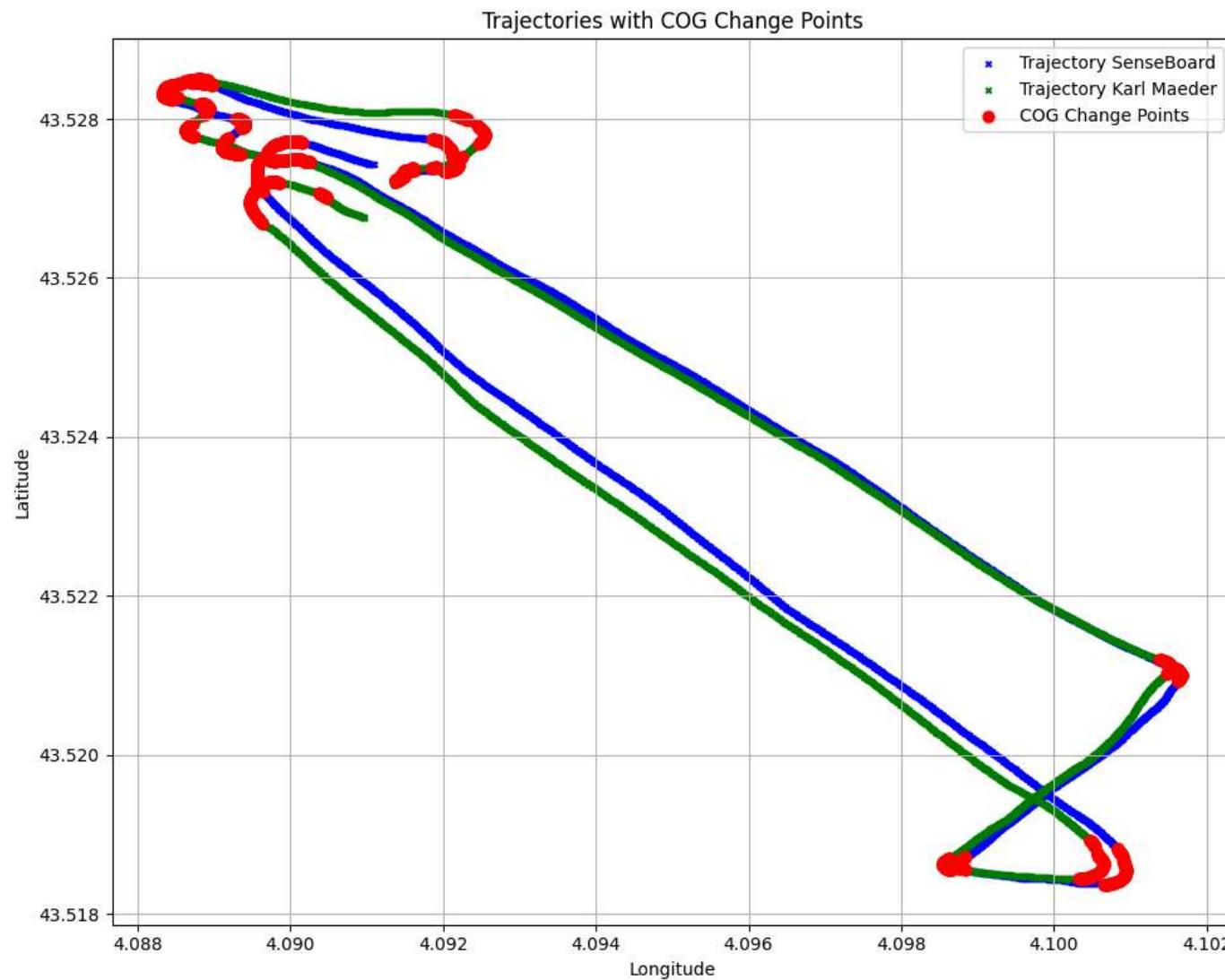


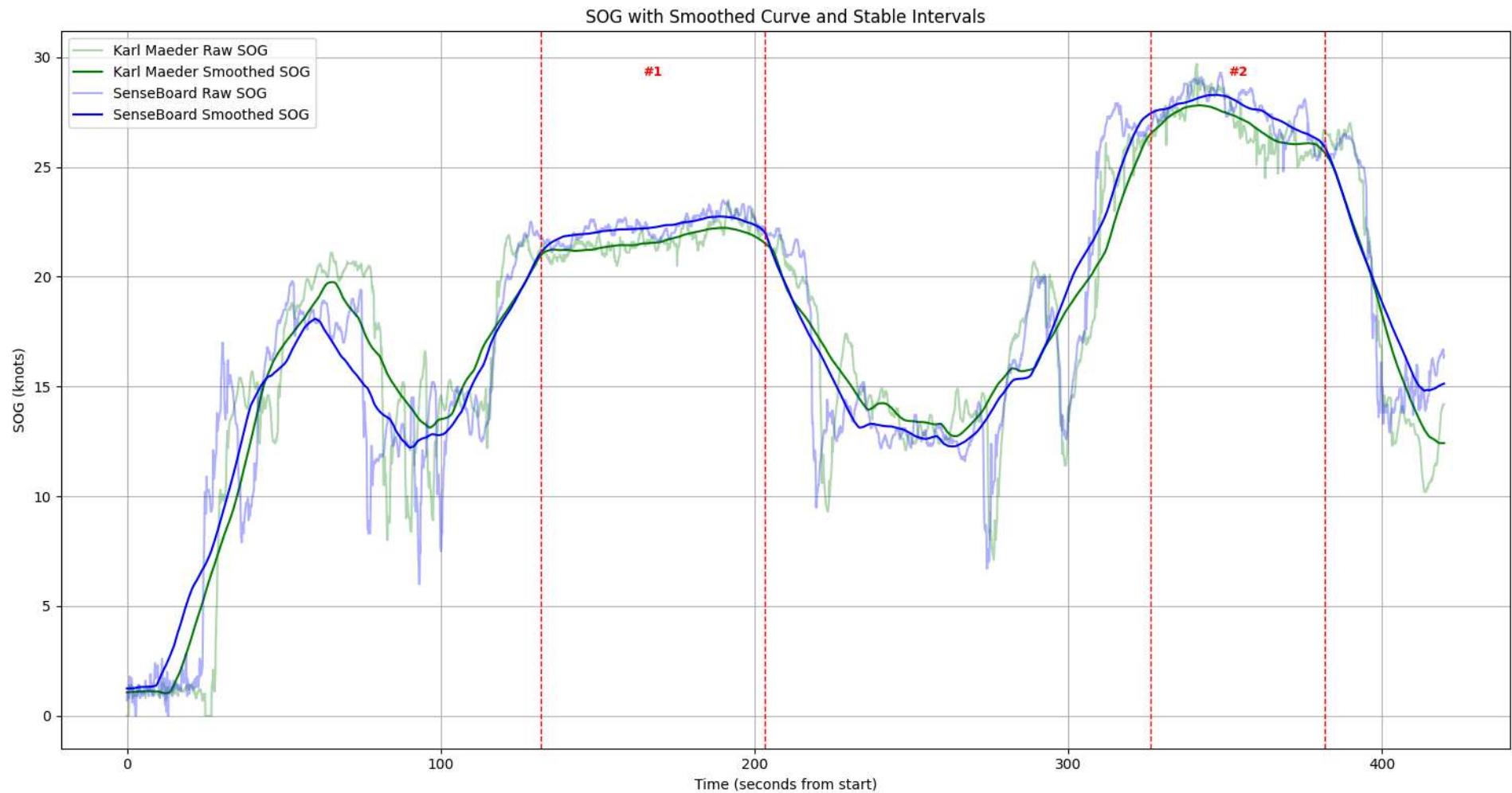
Analyse: Karl Maeder.csv et SenseBoard.csv dans ..\Data_Sailnjord\Straight_lines\06_06\06_06_Run5



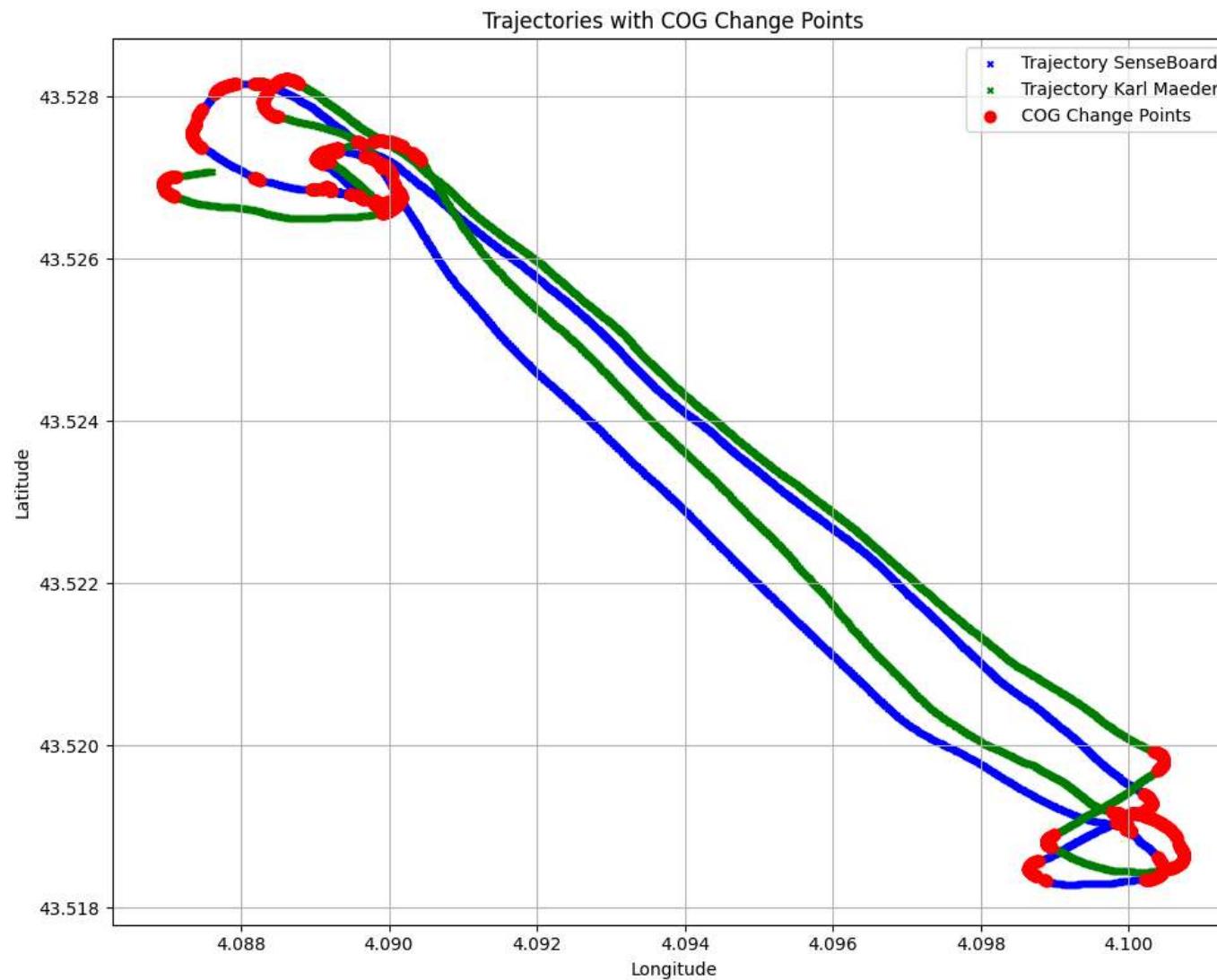


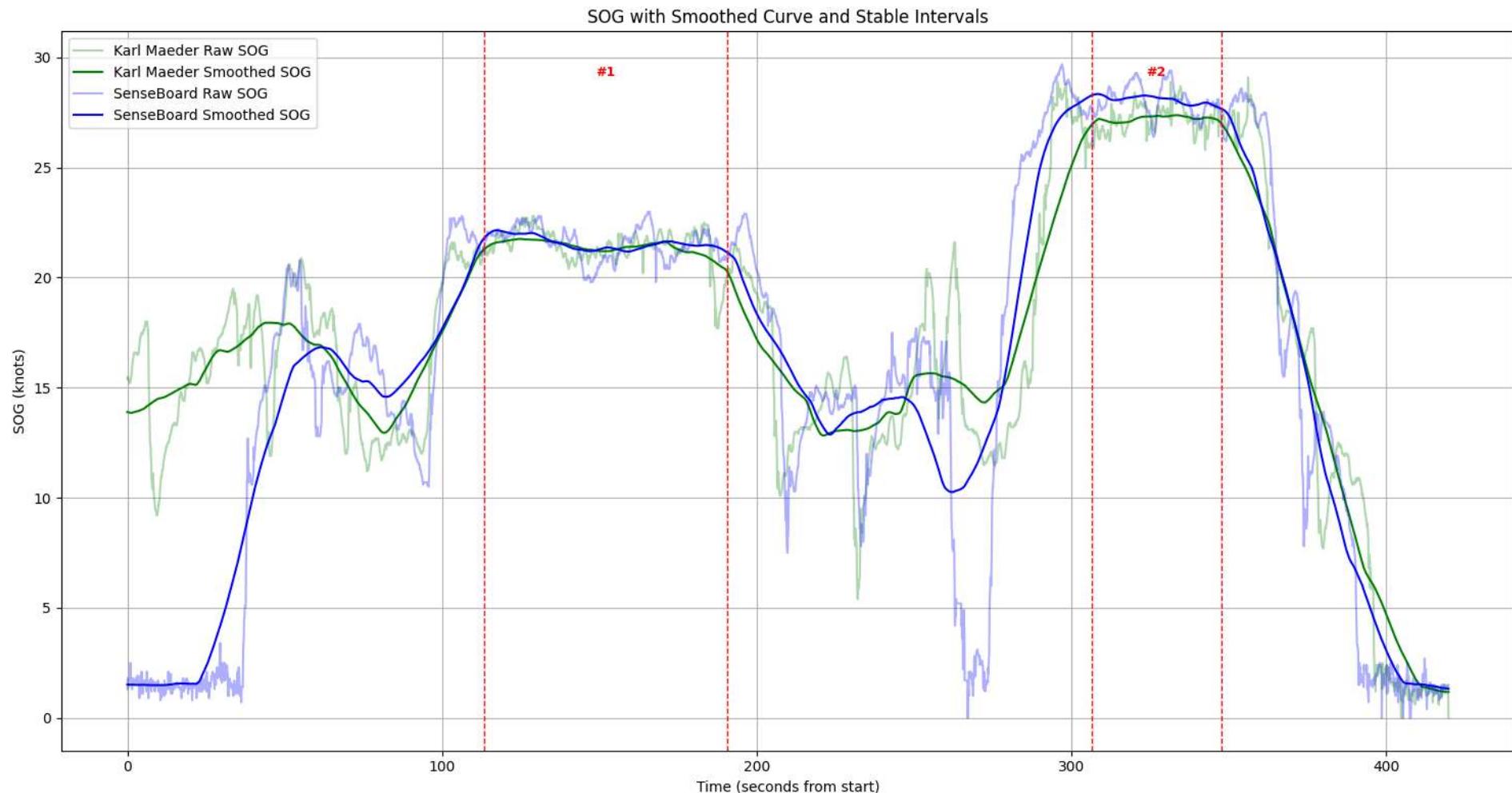
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\06_06\06_06_Run6



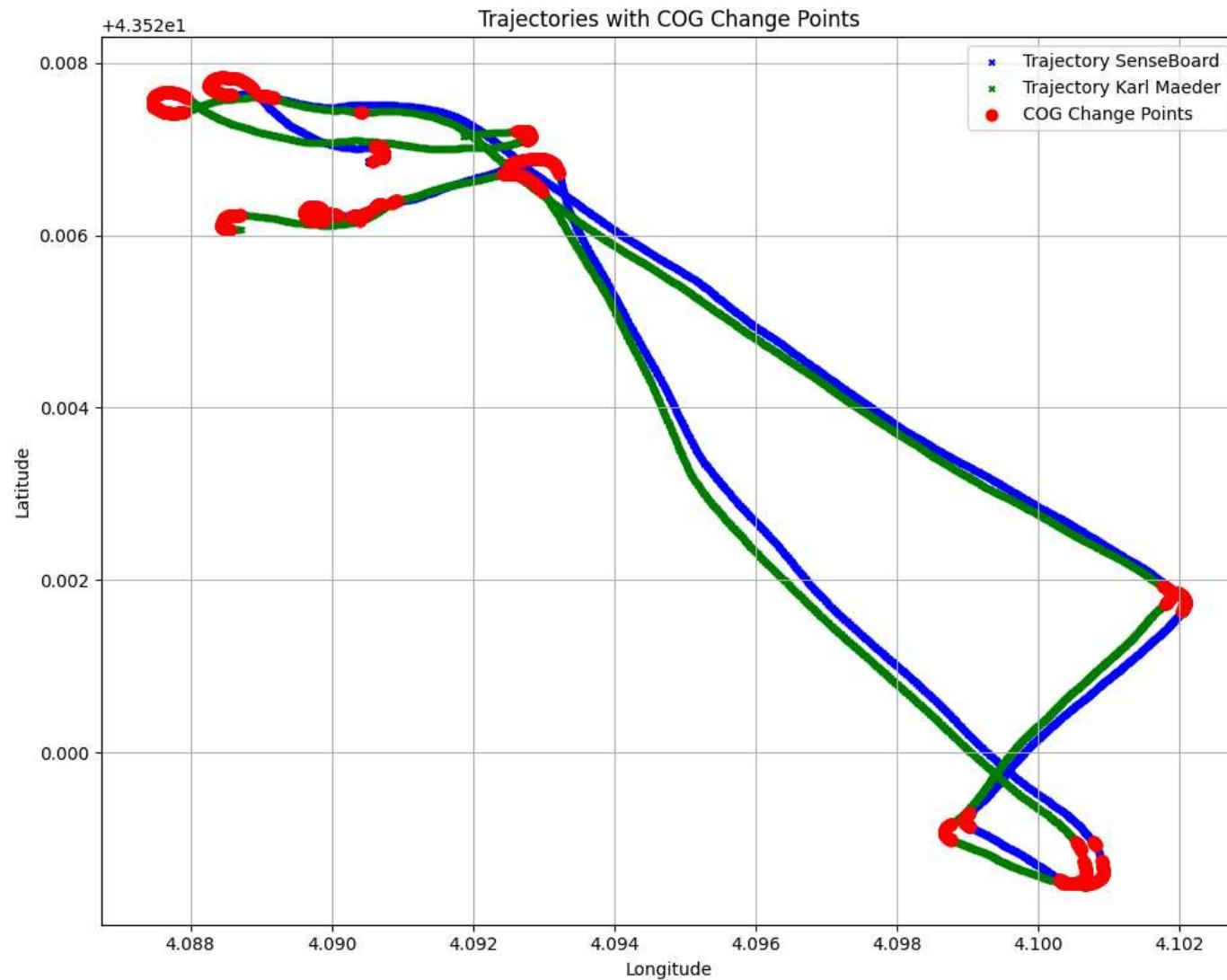


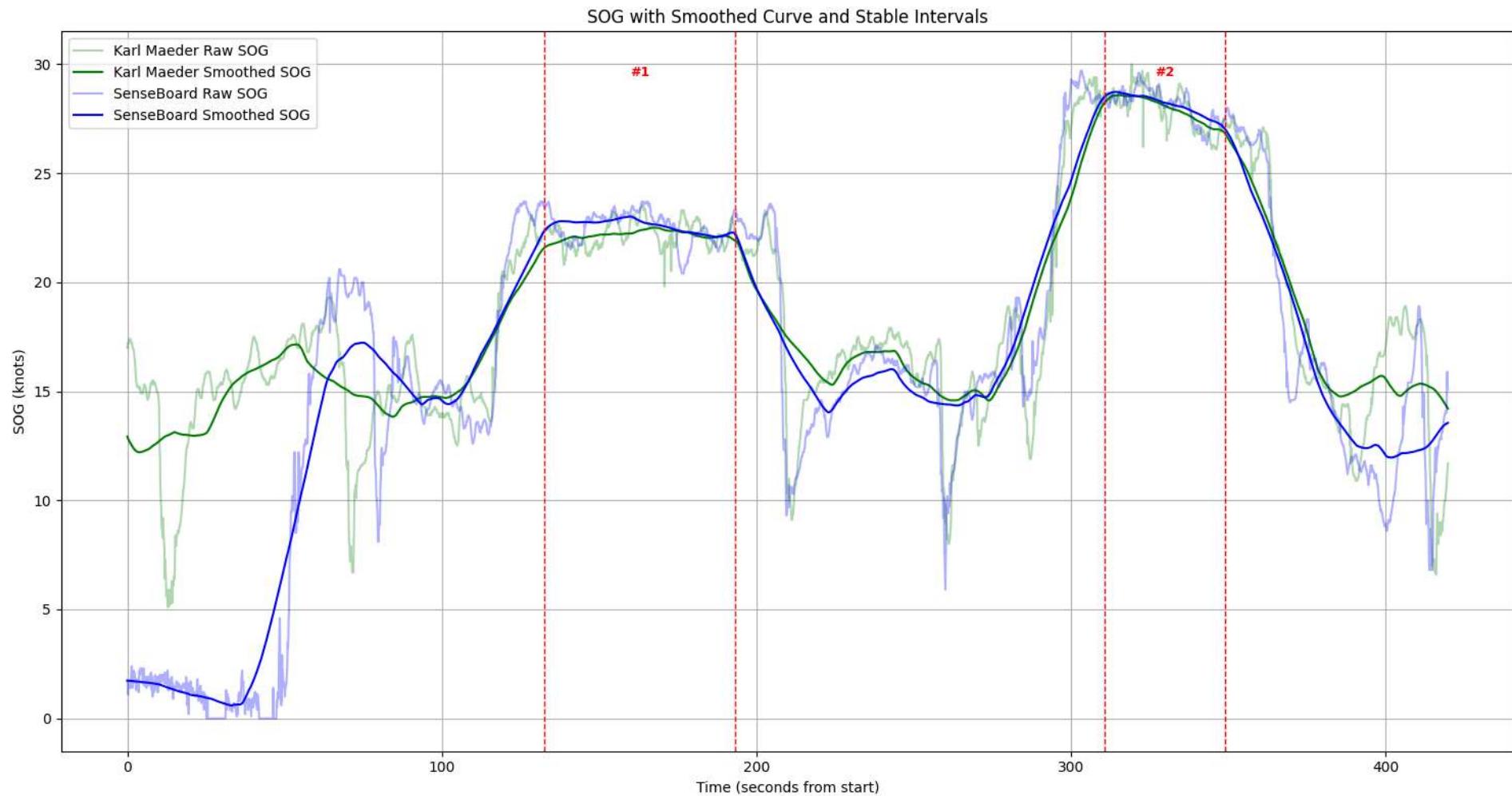
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\06_06\06_06_Run7



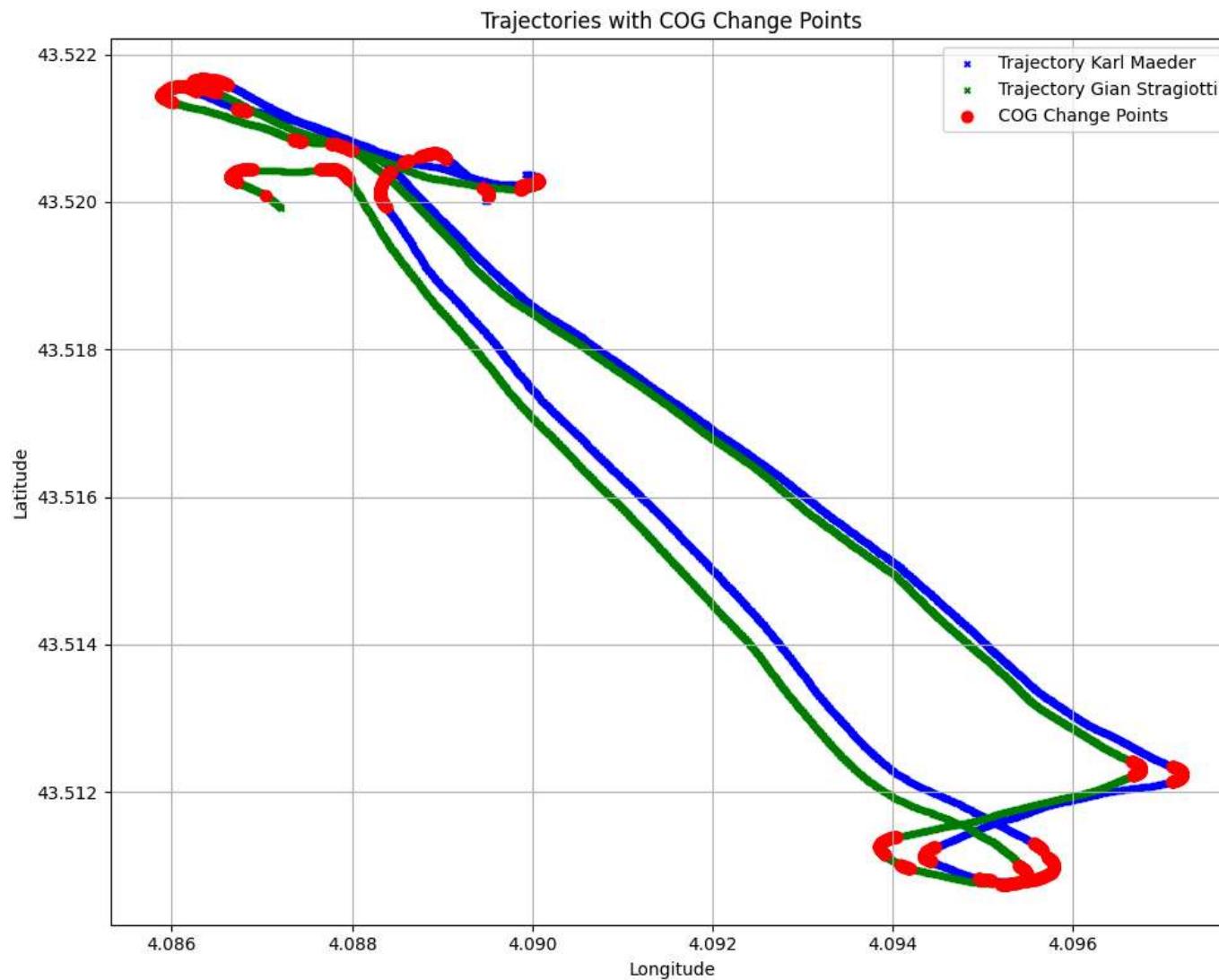


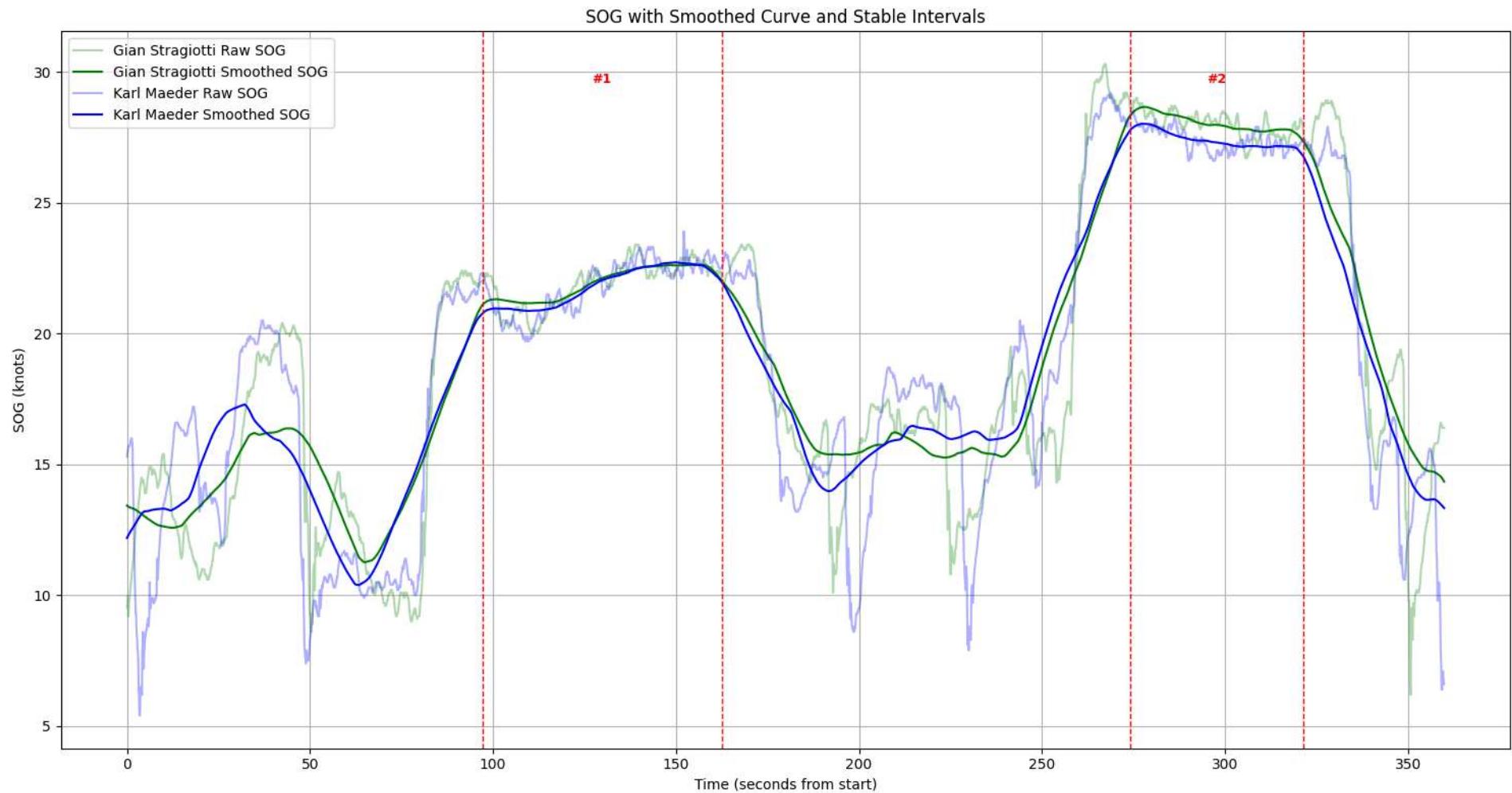
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\06_06\06_06_Run8



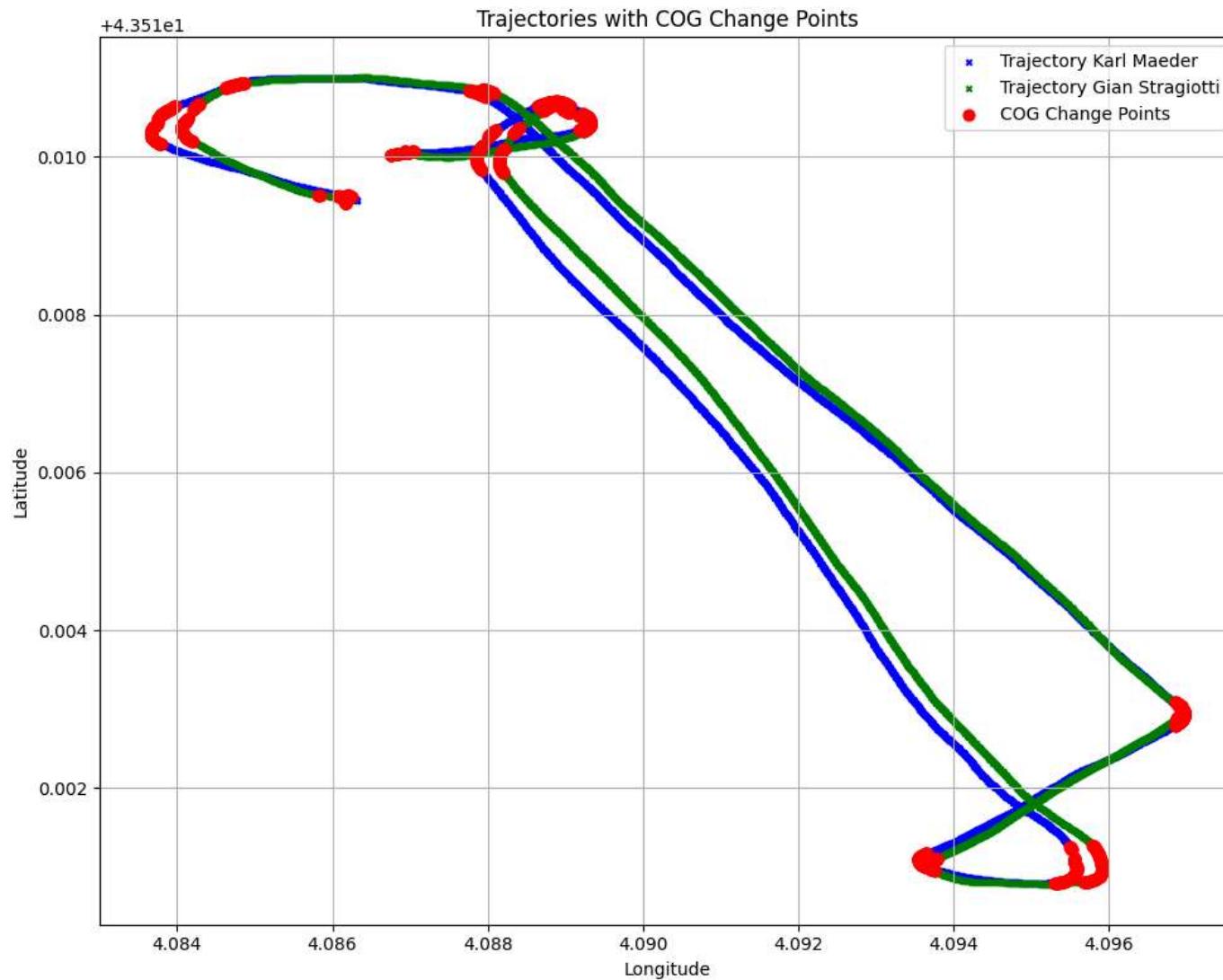


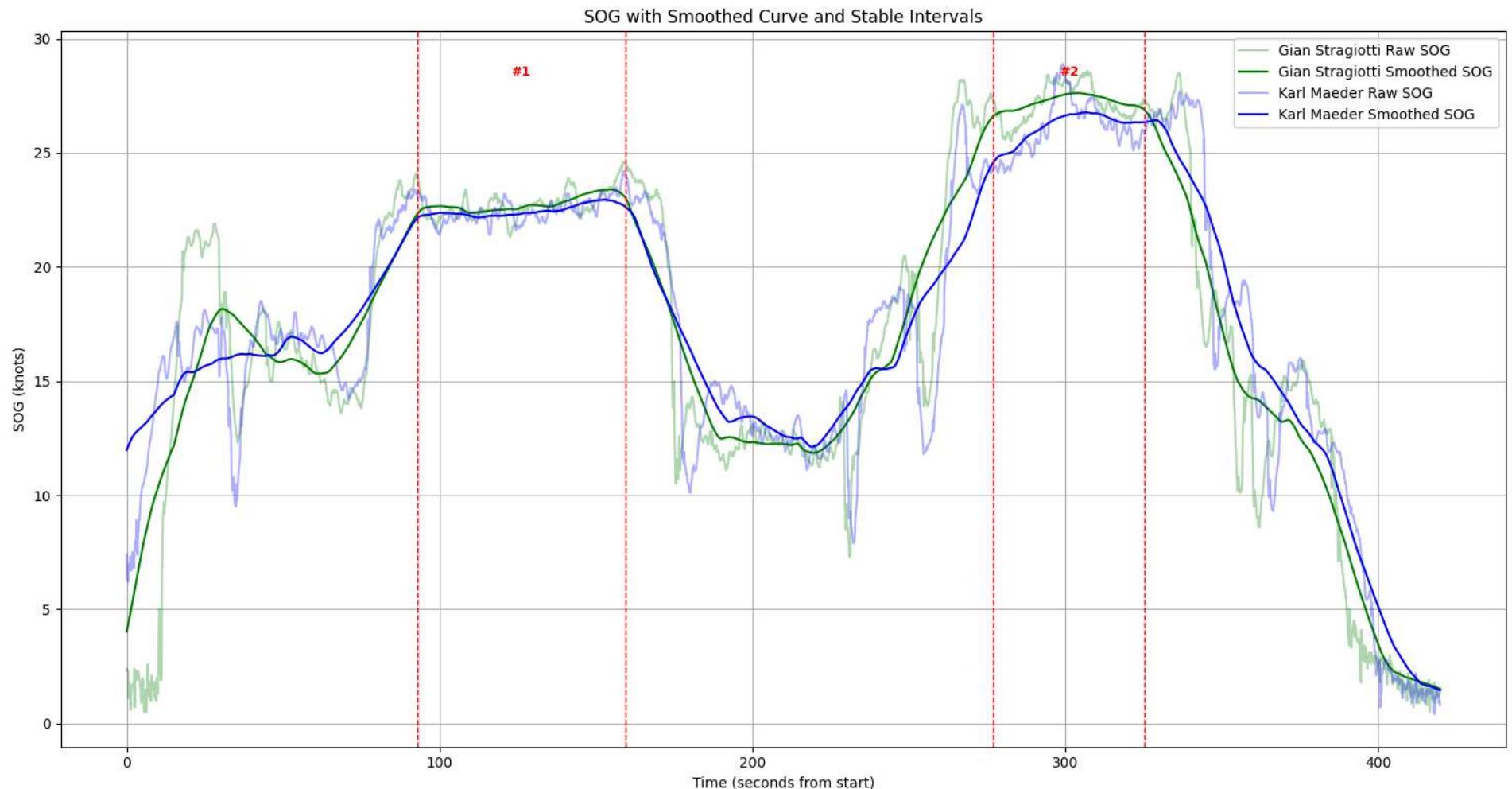
Ignoré: ../Data_Sailnjord/Straight_lines\06_06\Interview and equipment (attendu 2 CSV, trouvé 0)
 Ignoré: ../Data_Sailnjord/Straight_lines\06_06\senseboard_log (attendu 2 CSV, trouvé 0)
 Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ../Data_Sailnjord/Straight_lines\07_06\07_06_Run1



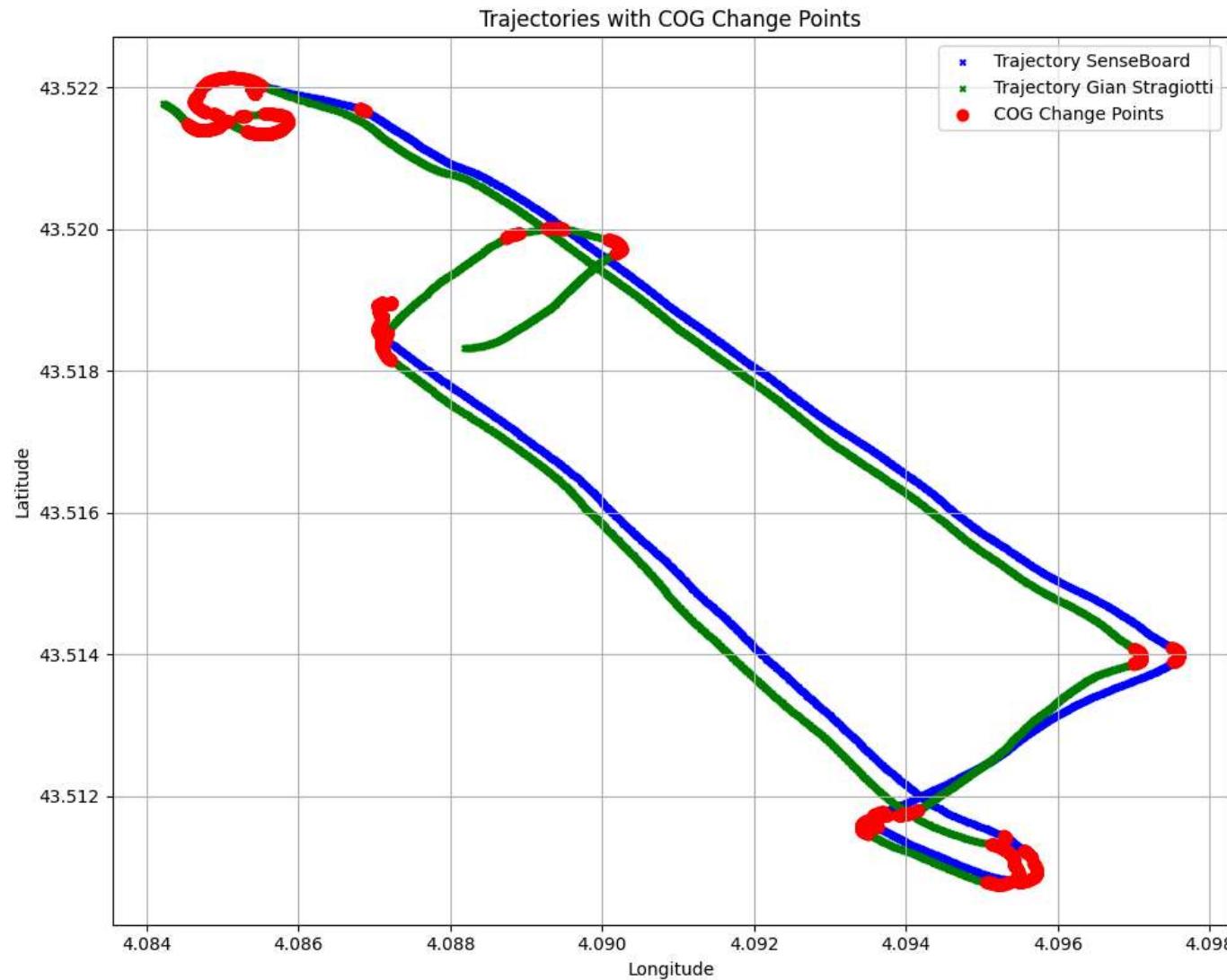


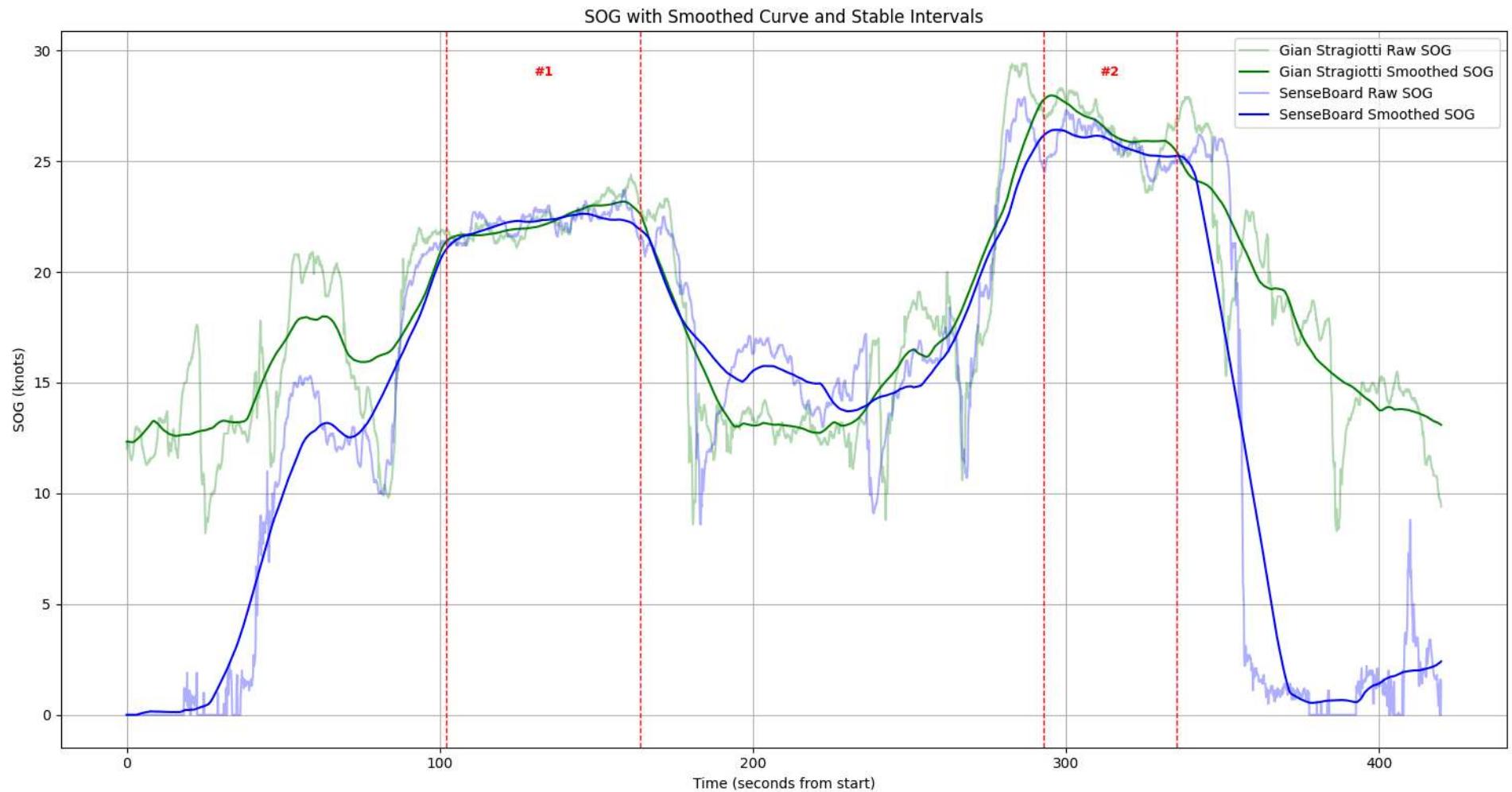
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\07_06\07_06_Run2



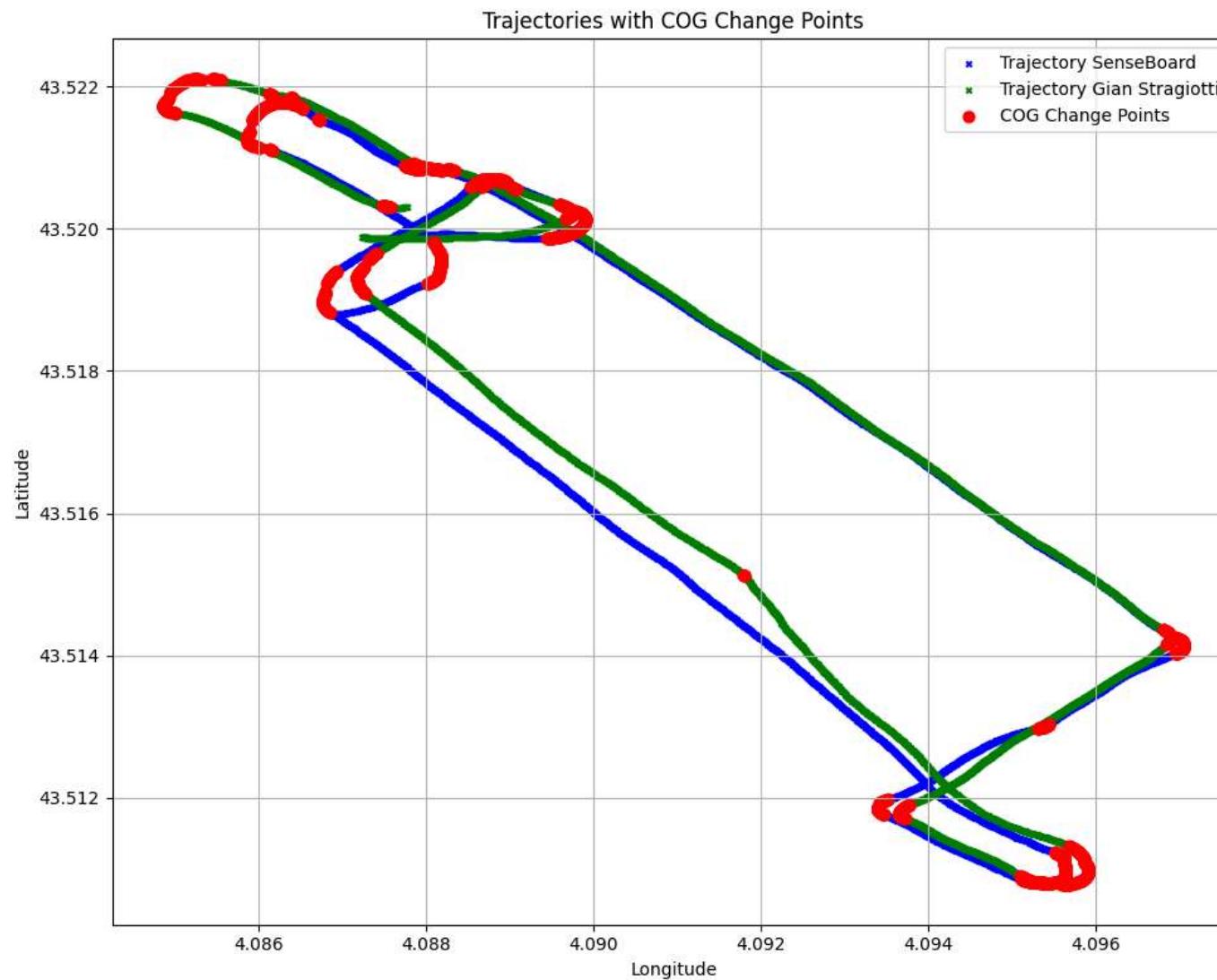


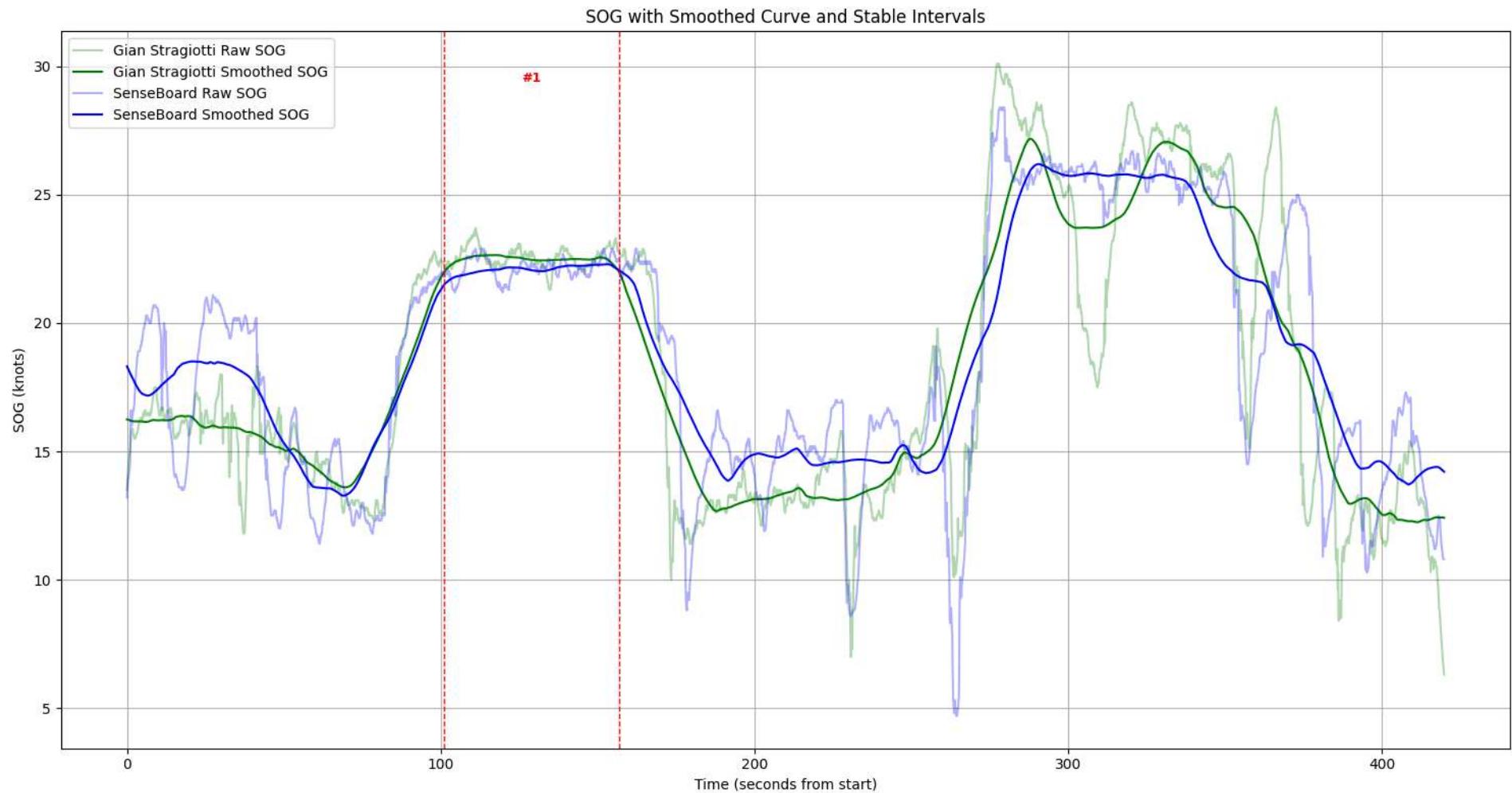
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\07_06\07_06_Run3



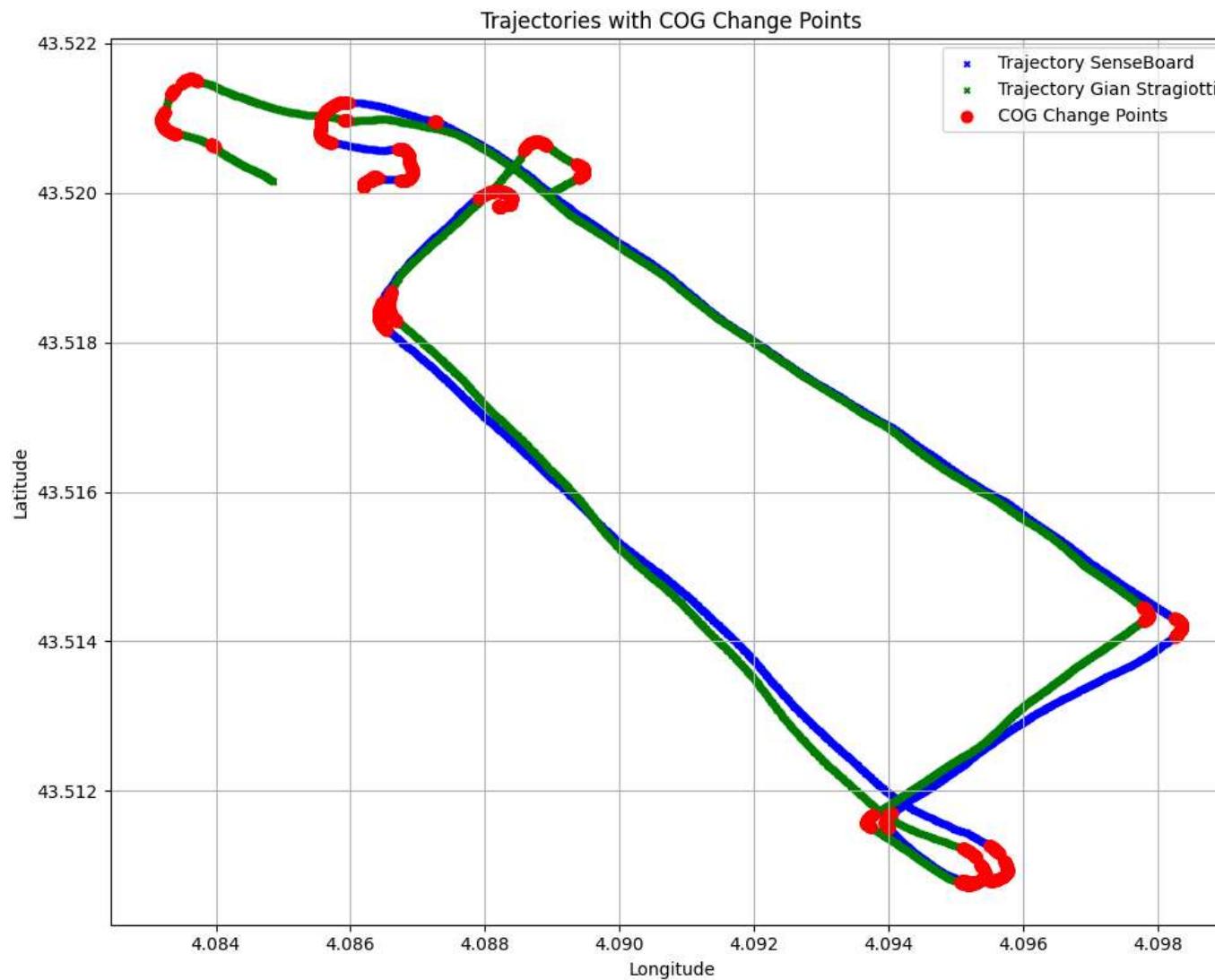


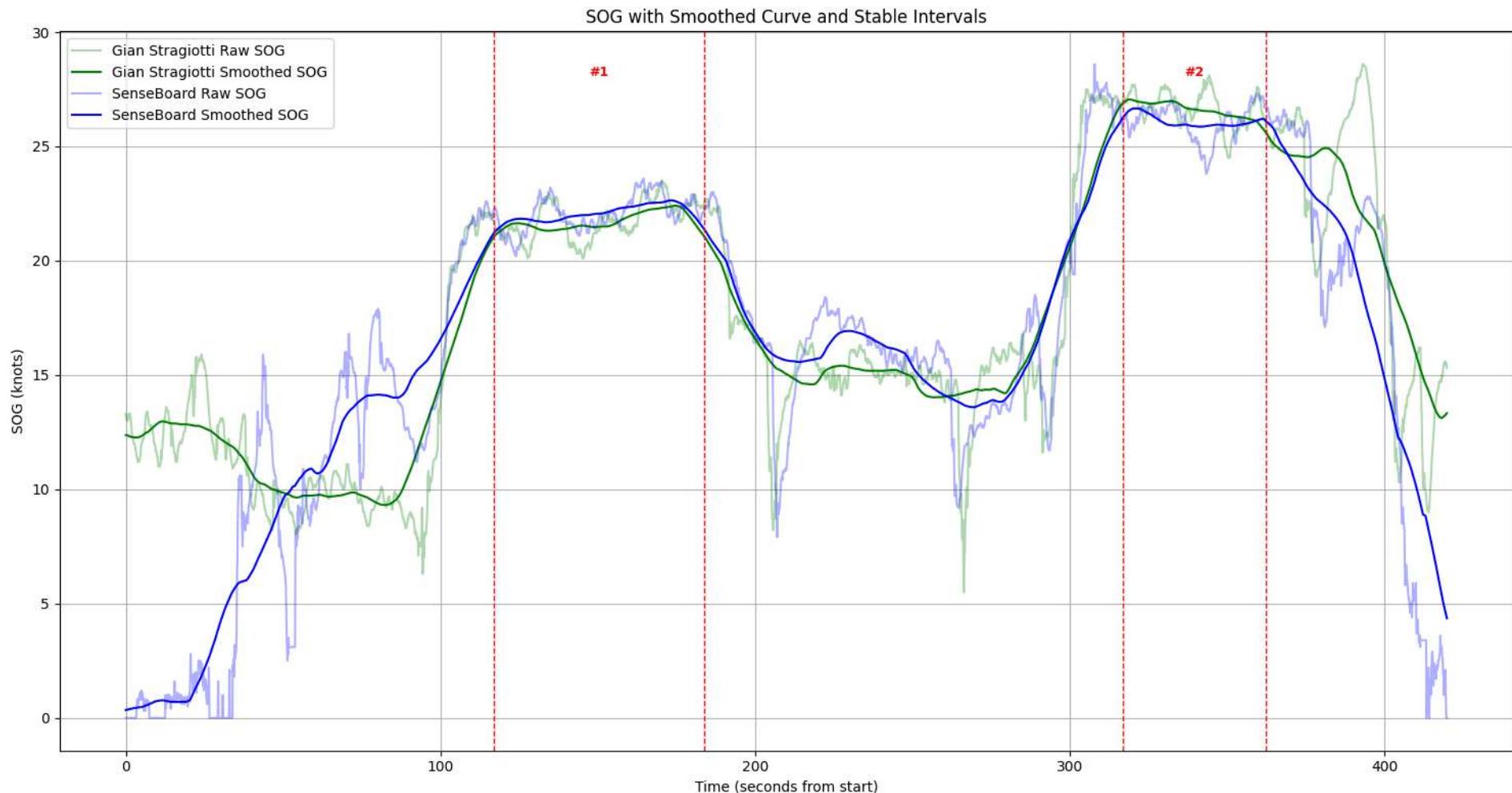
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\07_06\07_06_Run4



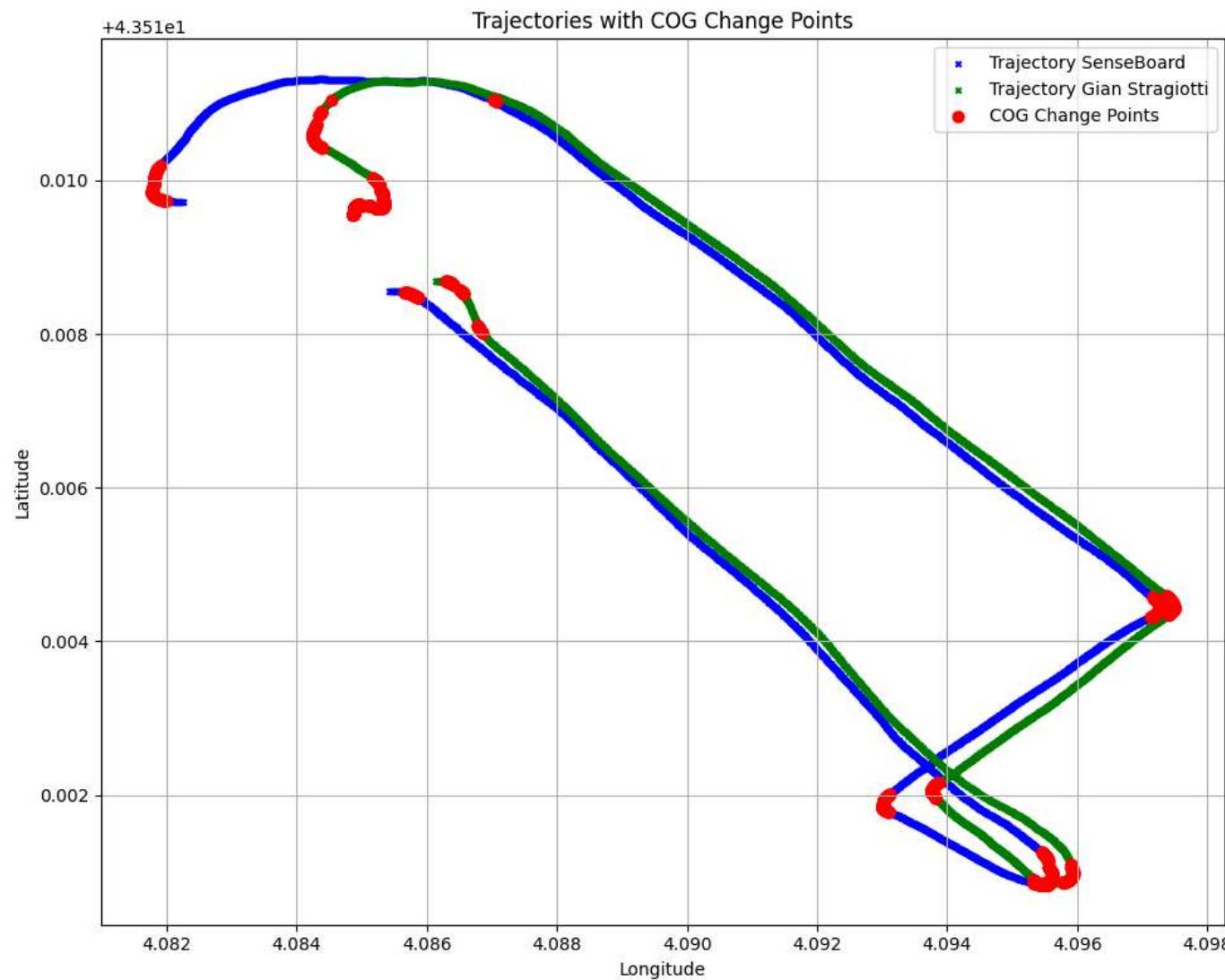


Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\07_06\07_06_Run5

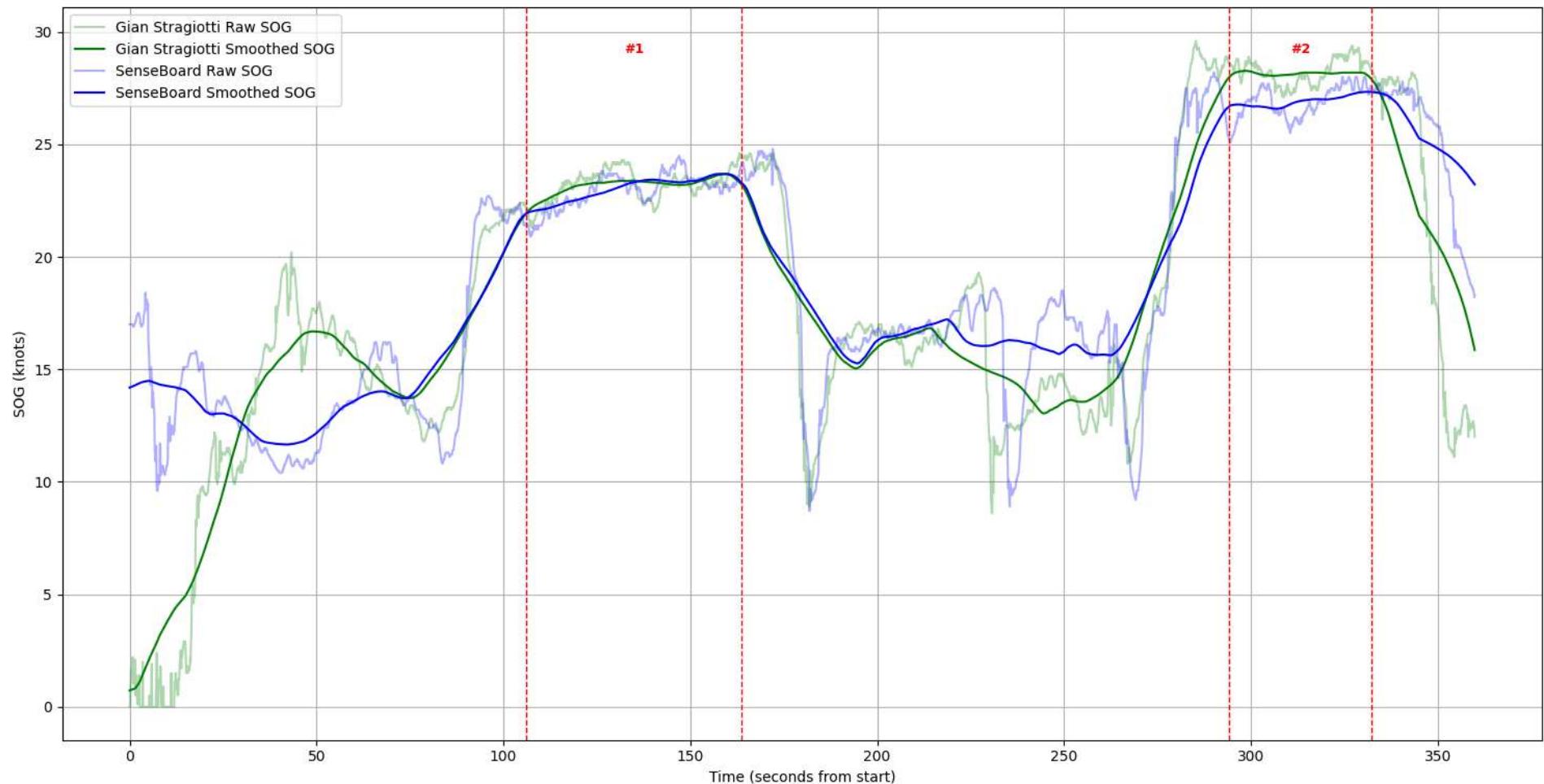




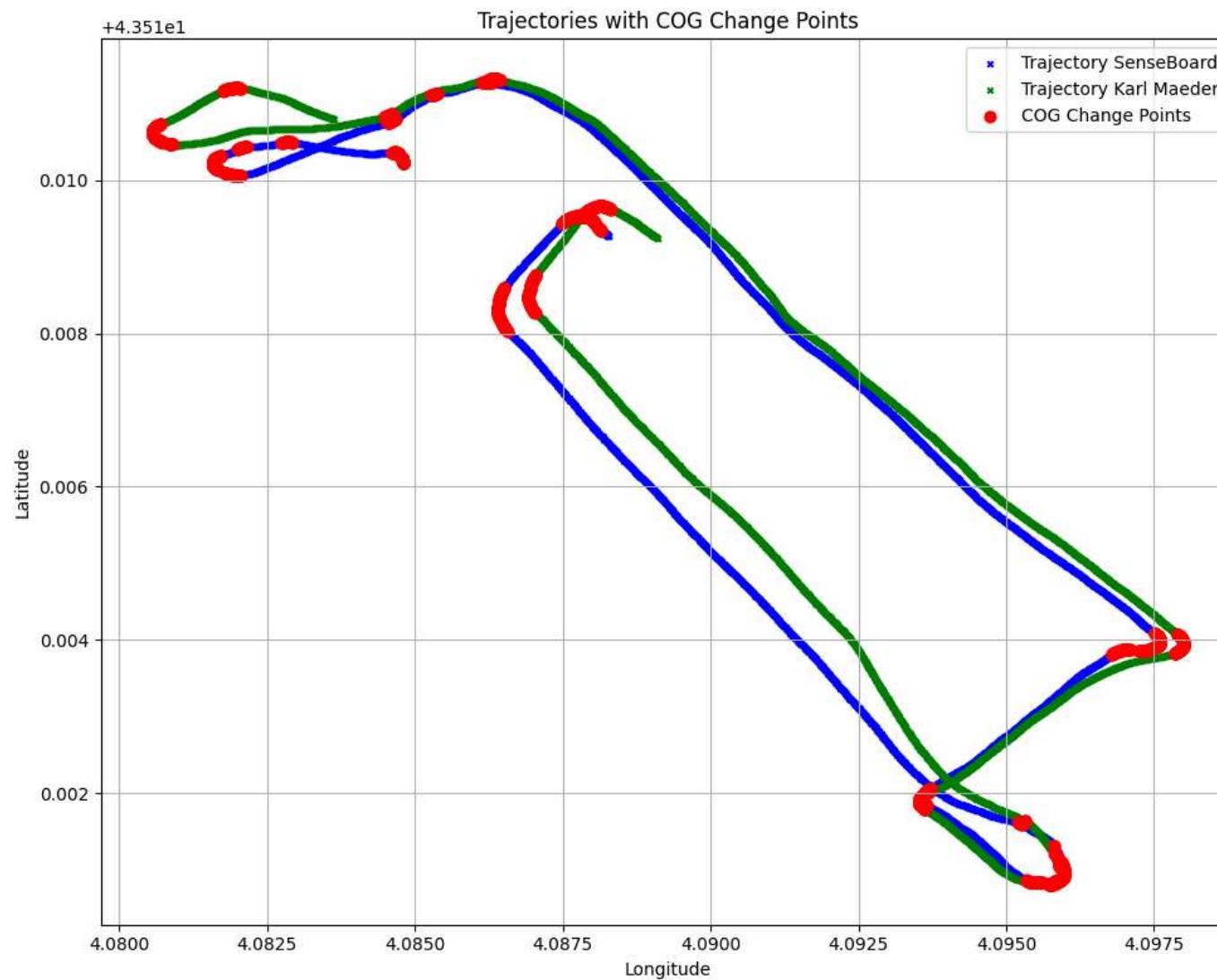
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\07_06\07_06_Run6

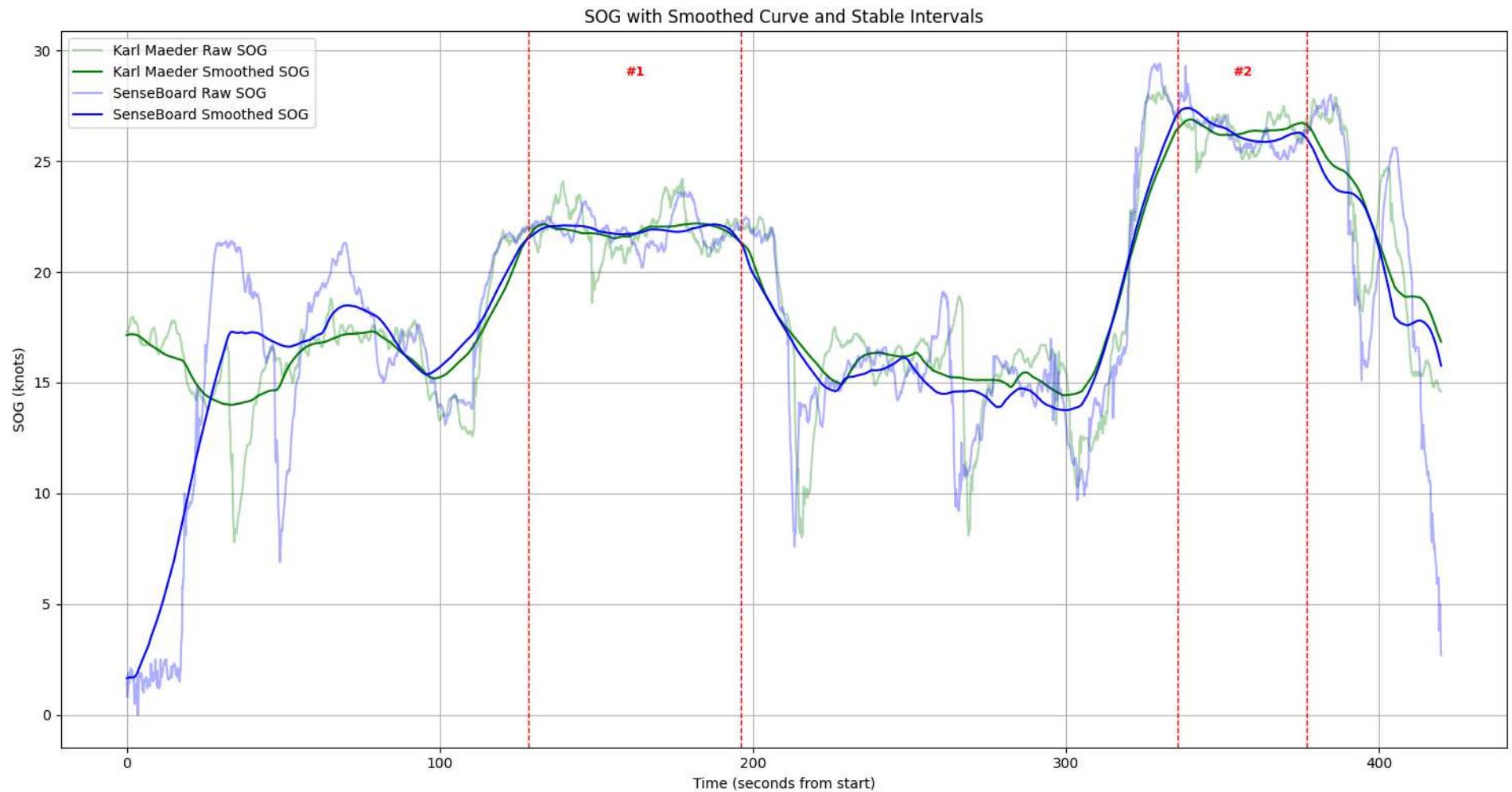


SOG with Smoothed Curve and Stable Intervals

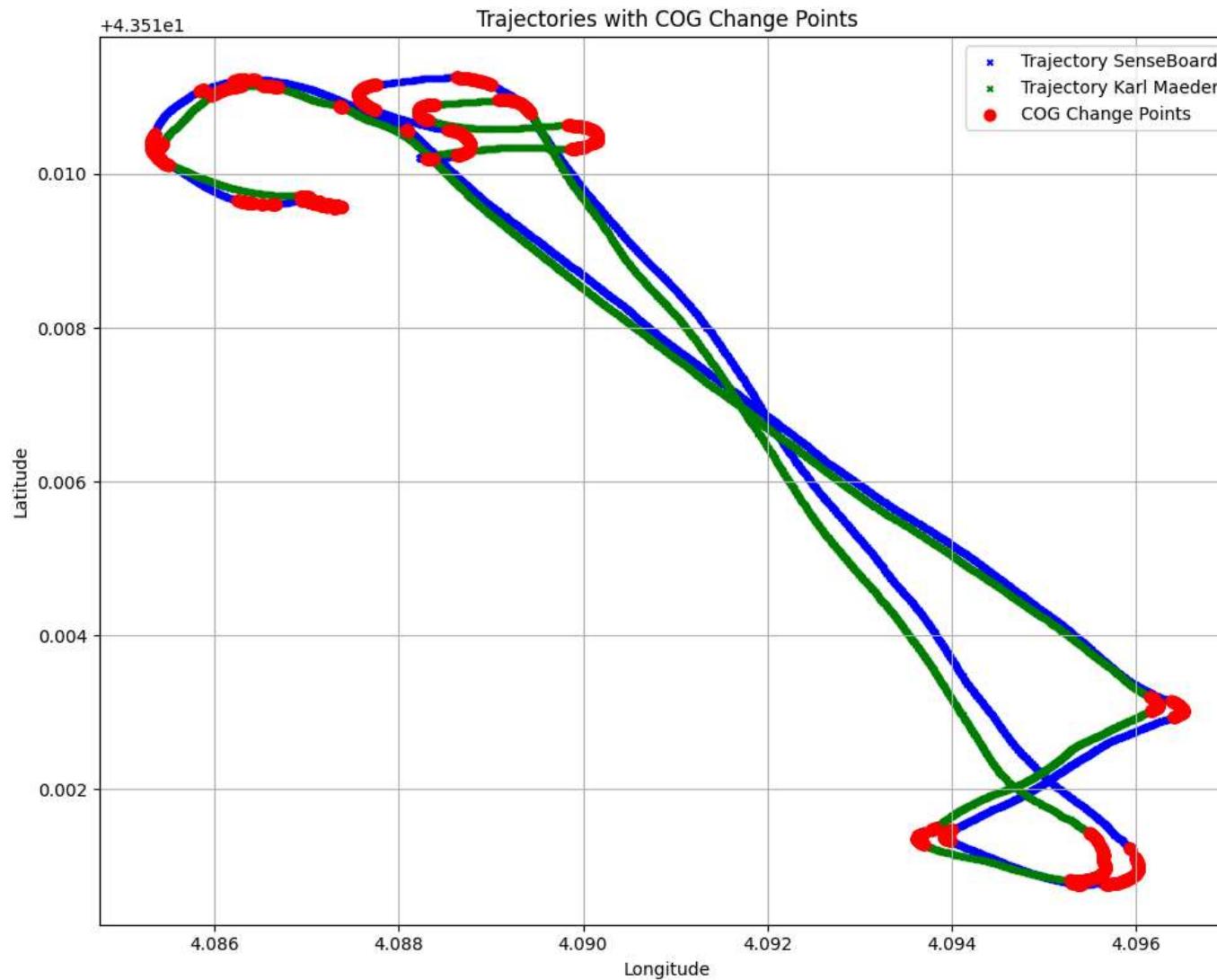


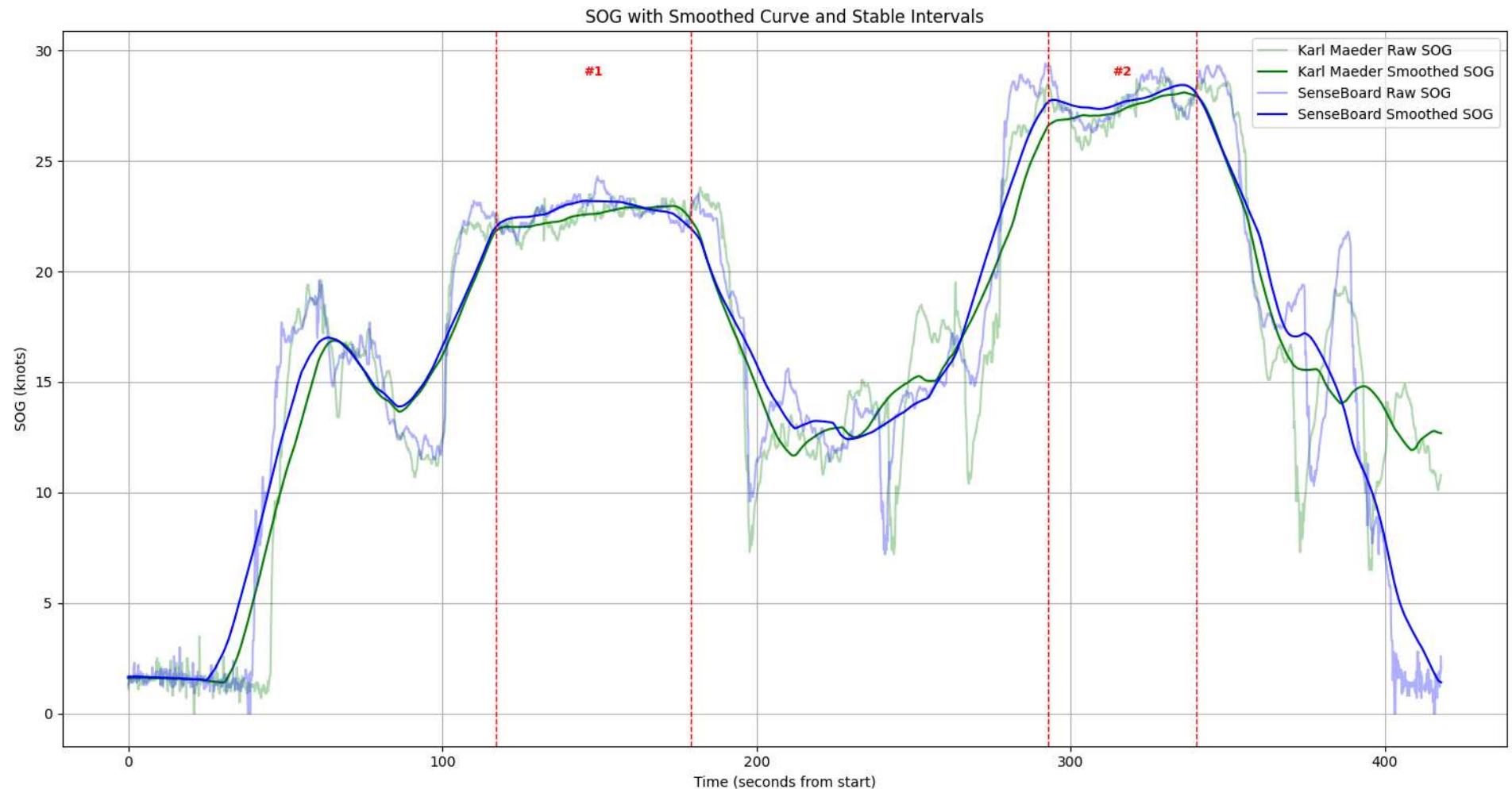
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\07_06\07_06_Run7



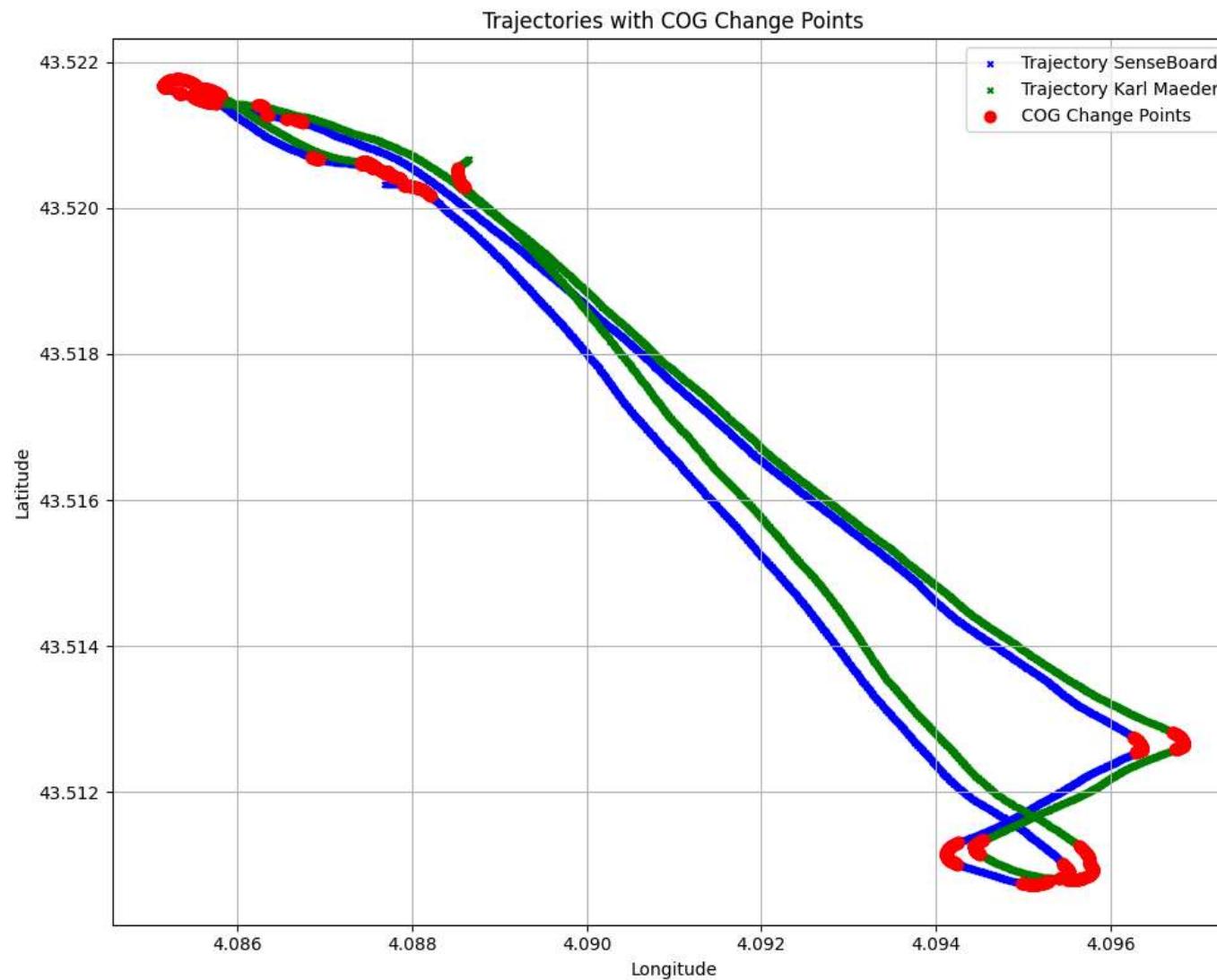


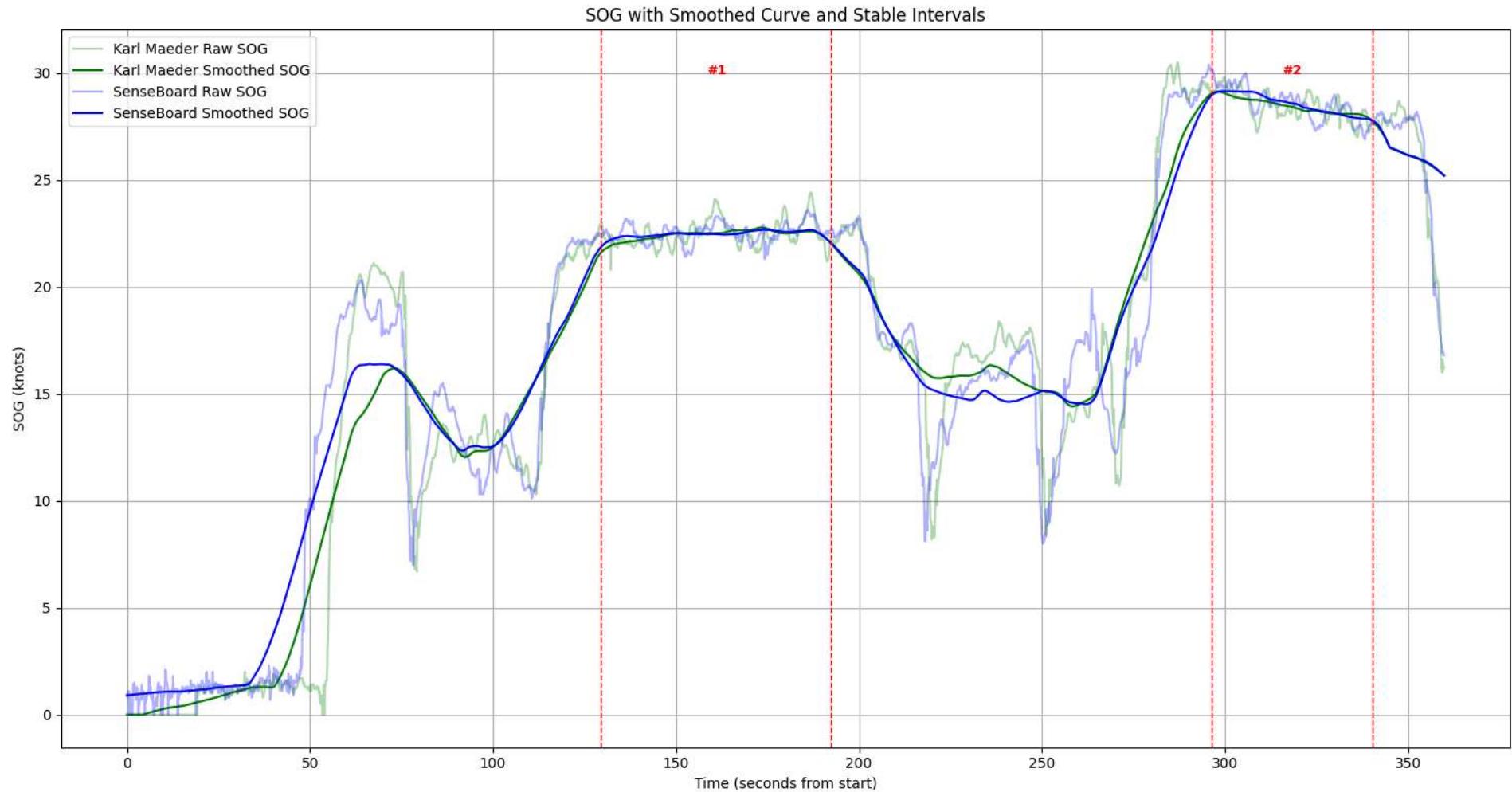
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\07_06\07_06_Run8



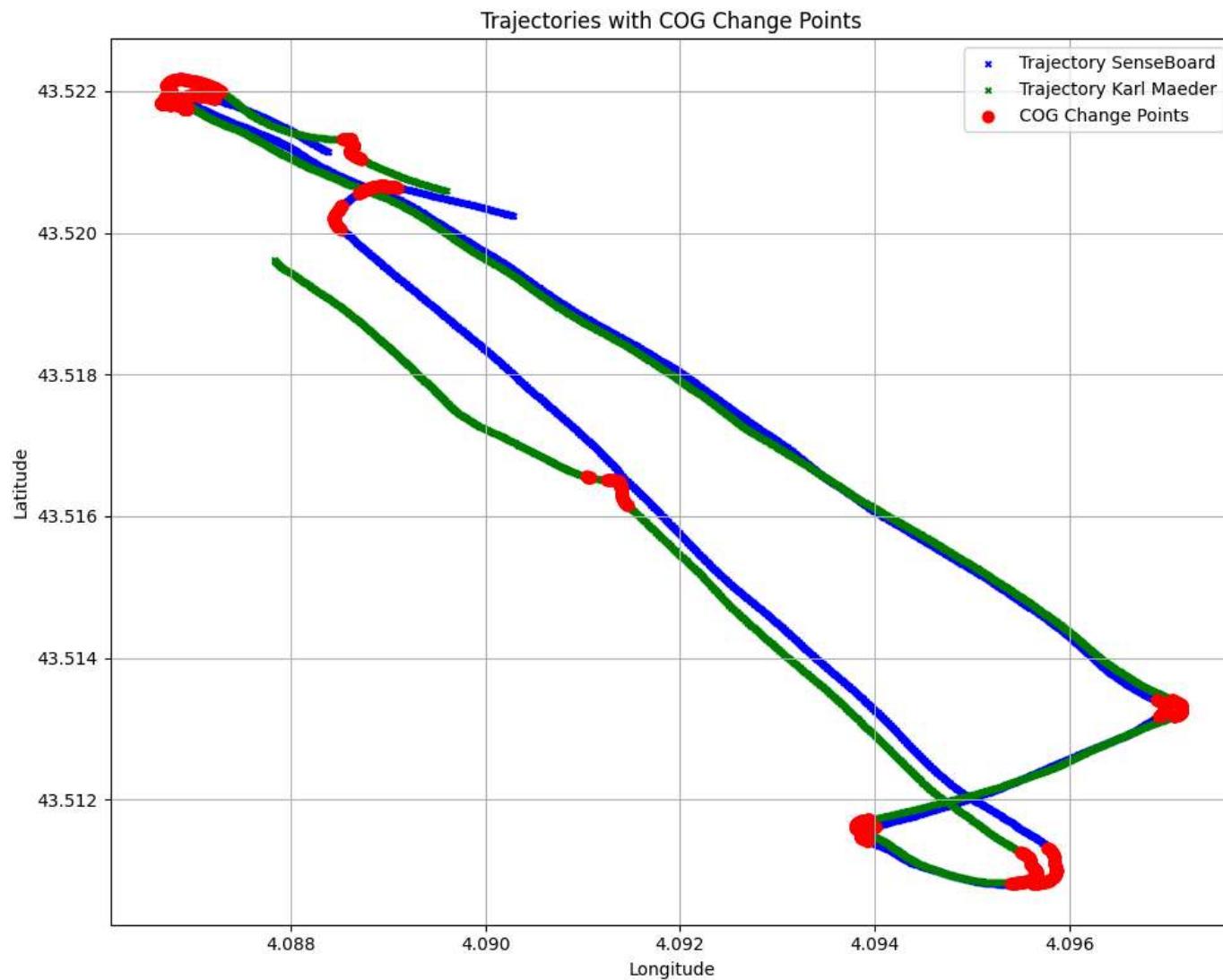


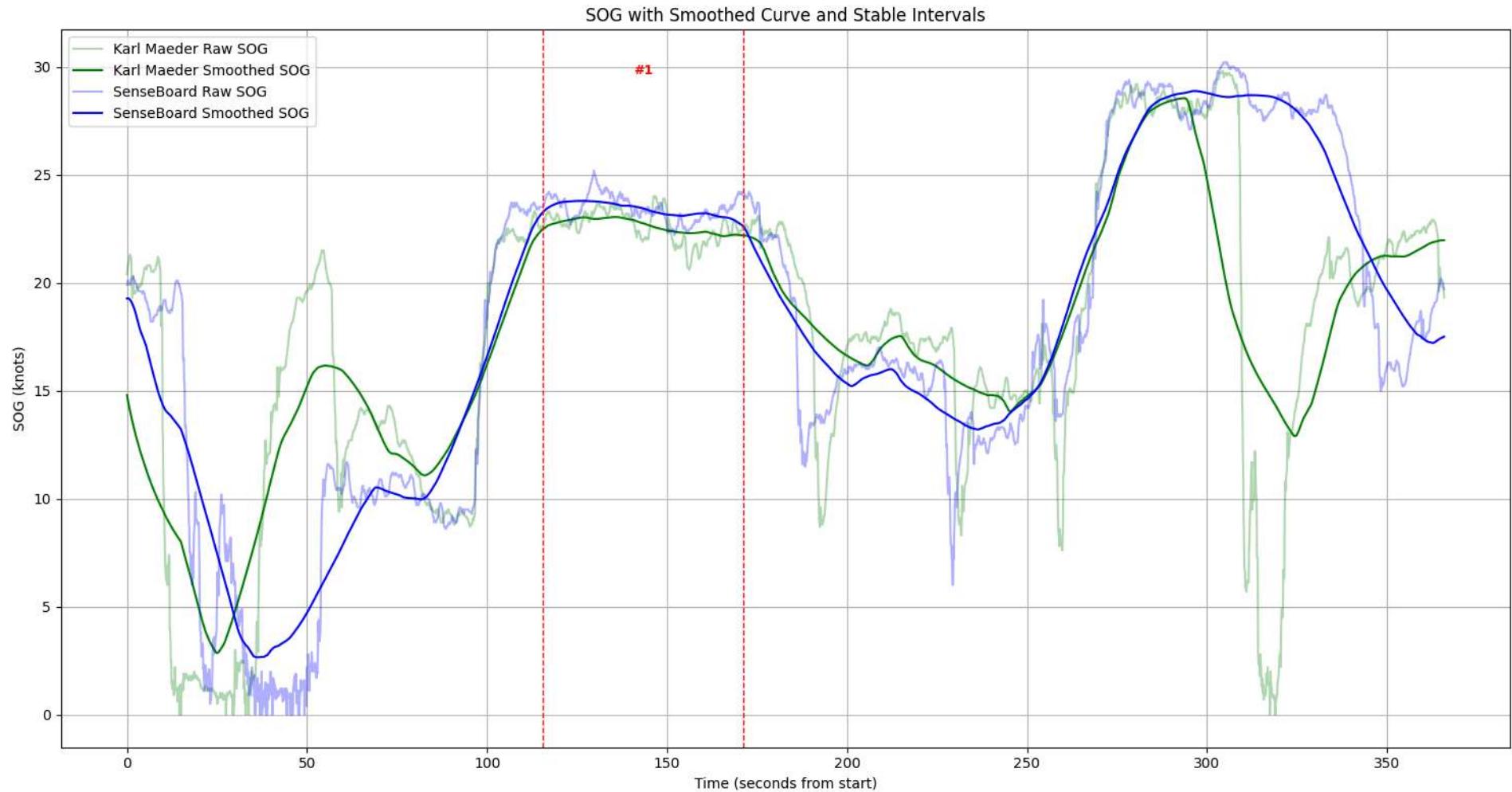
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\07_06\07_06_Run9



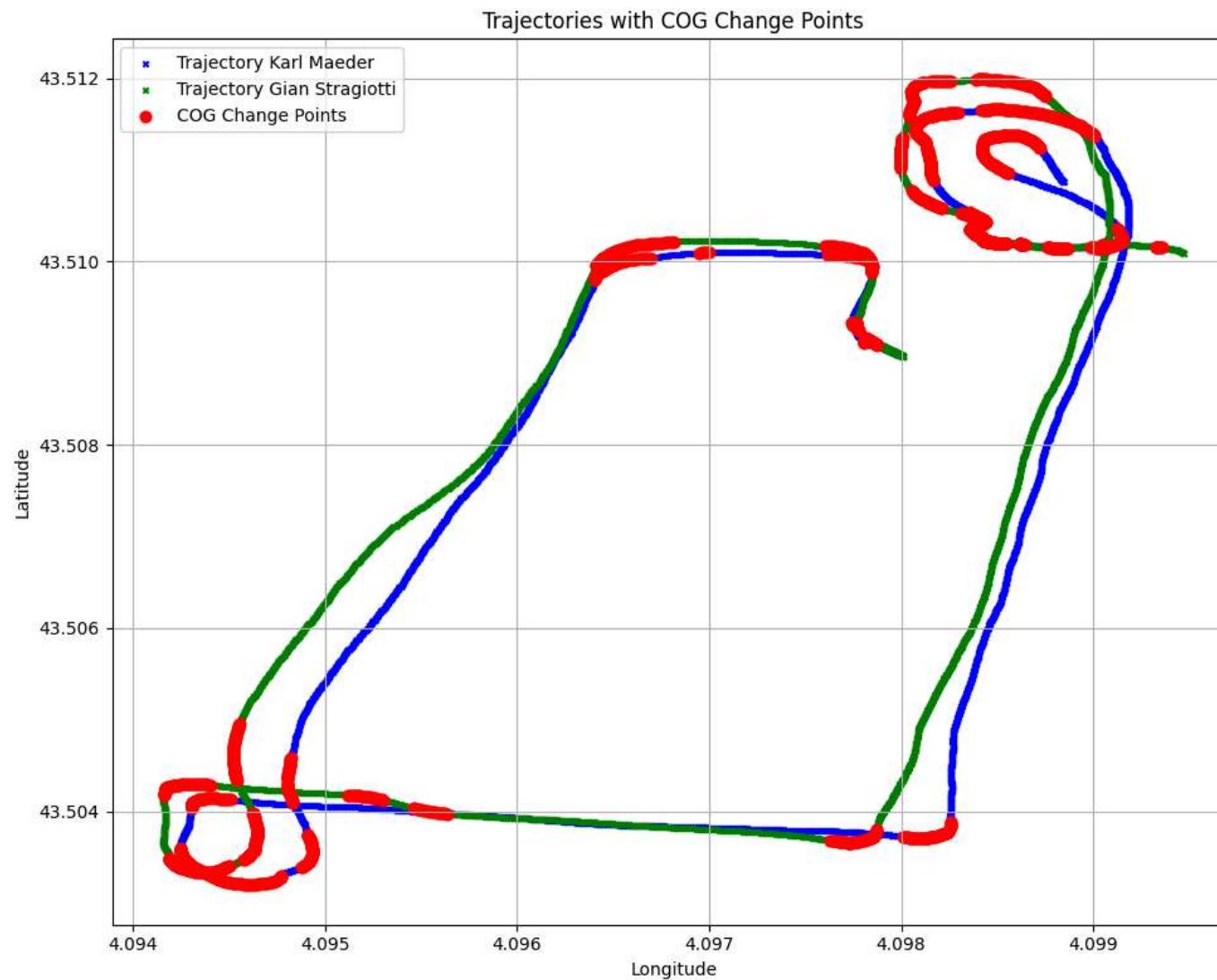


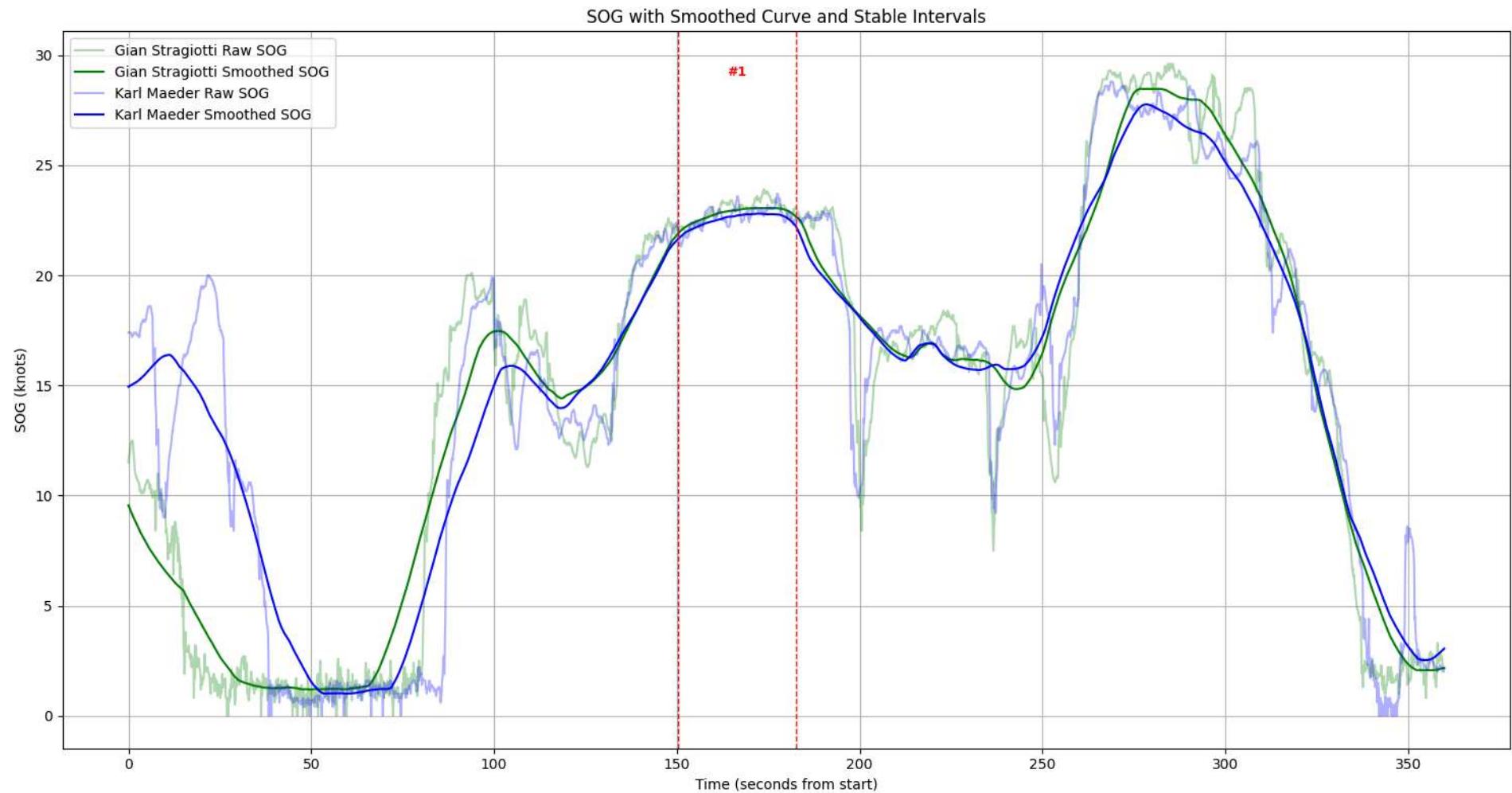
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\07_06\07_06_Run10



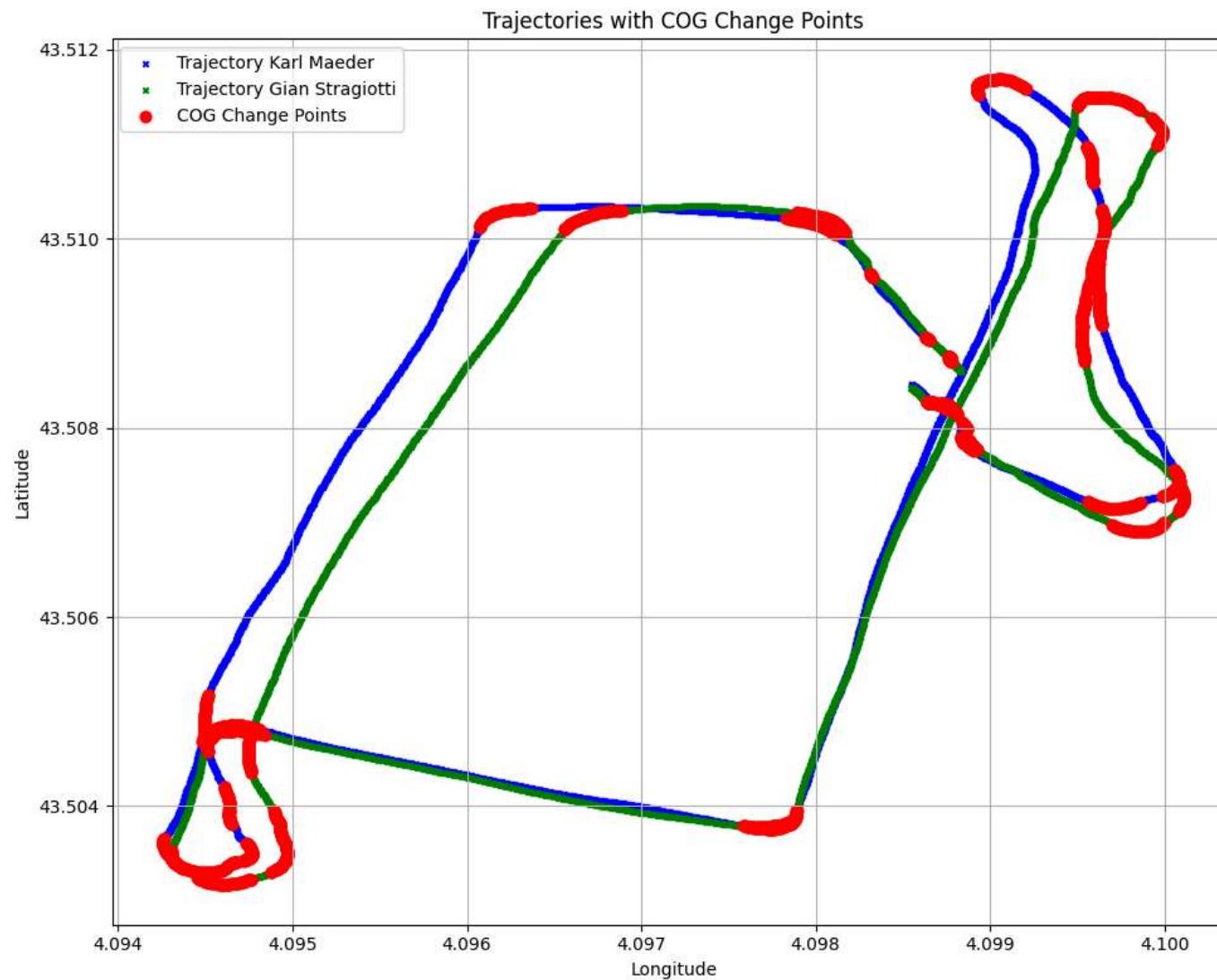


Ignoré: ../Data_Sailnjord/Straight_lines\07_06\Interview and equipment (attendu 2 CSV, trouvé 0)
 Ignoré: ../Data_Sailnjord/Straight_lines\07_06\senseboard_log (attendu 2 CSV, trouvé 0)
 Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ../Data_Sailnjord/Straight_lines\09_06\09_06_Run1

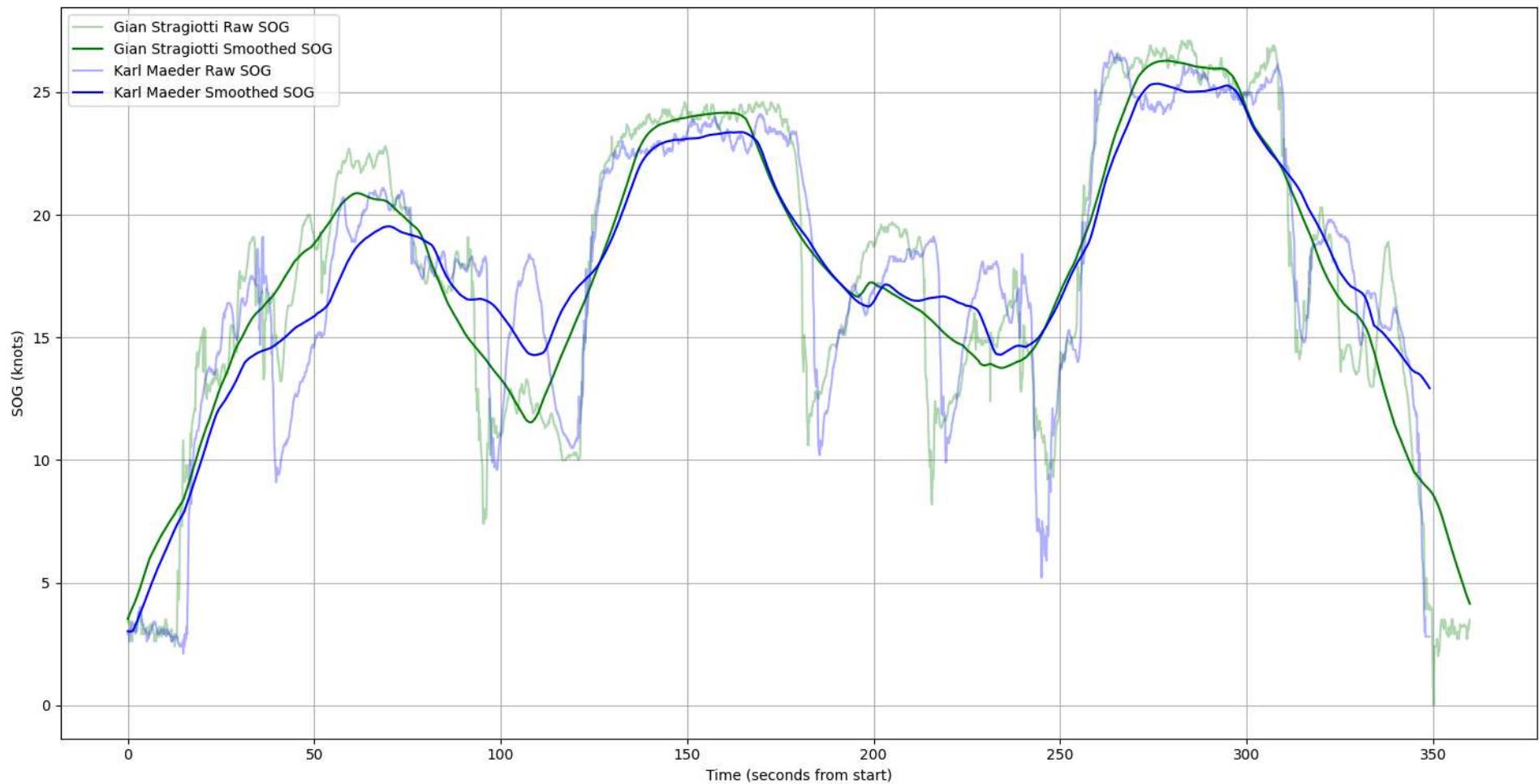




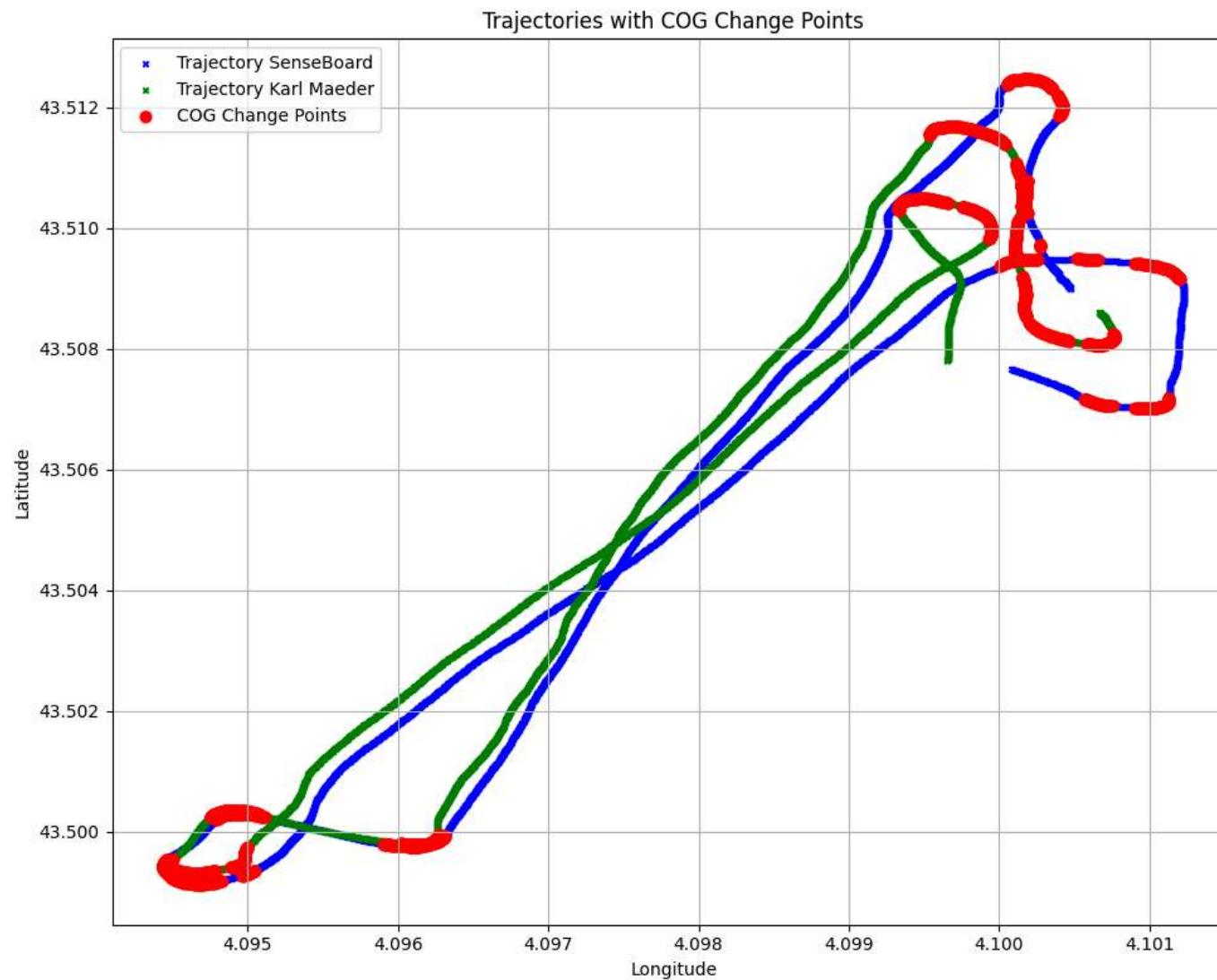
Analyse: Gian Stragiotti.csv et Karl Maeder.csv dans ..\Data_Sailnjord\Straight_lines\09_06\09_06_Run2

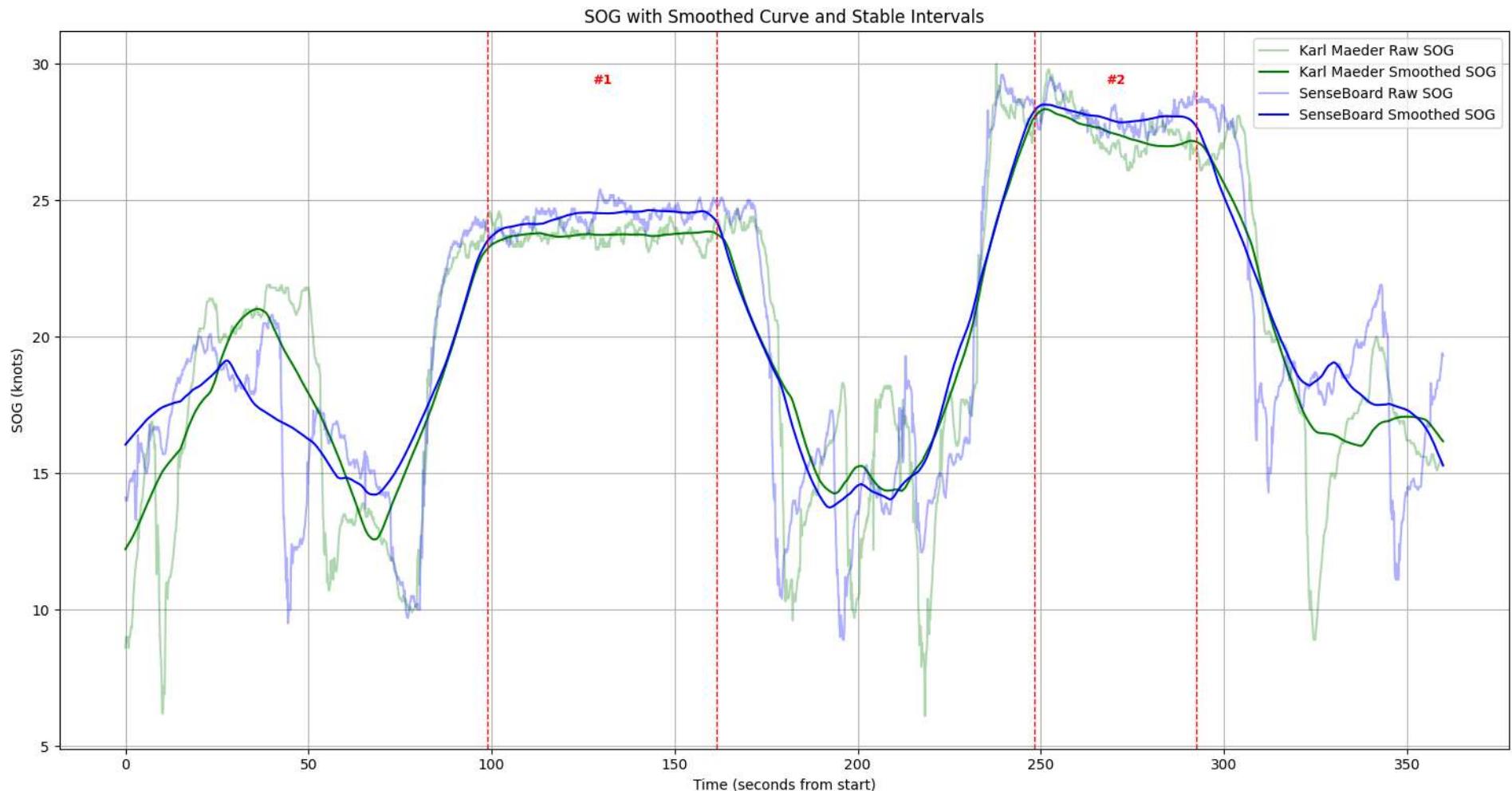


SOG with Smoothed Curve and Stable Intervals

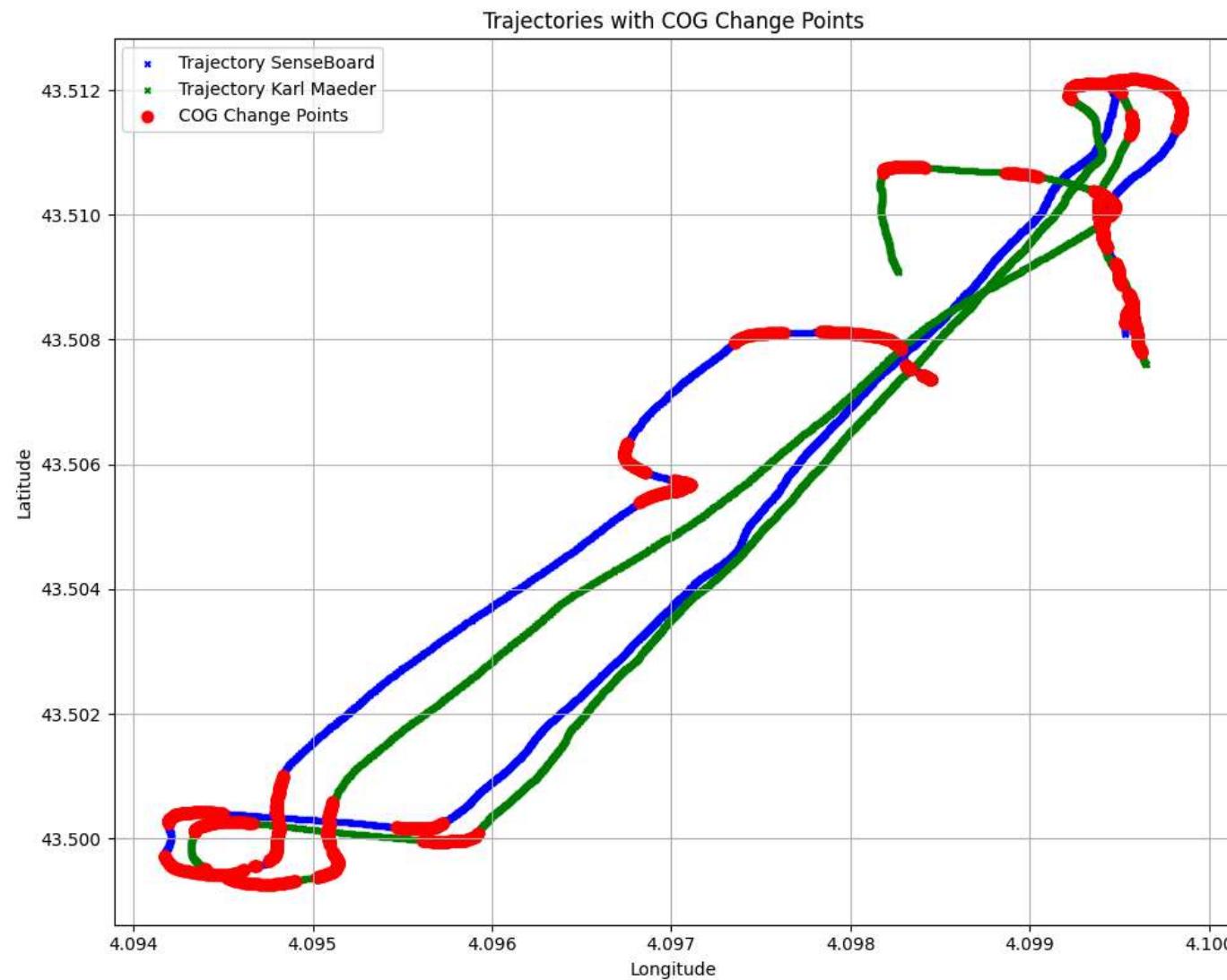


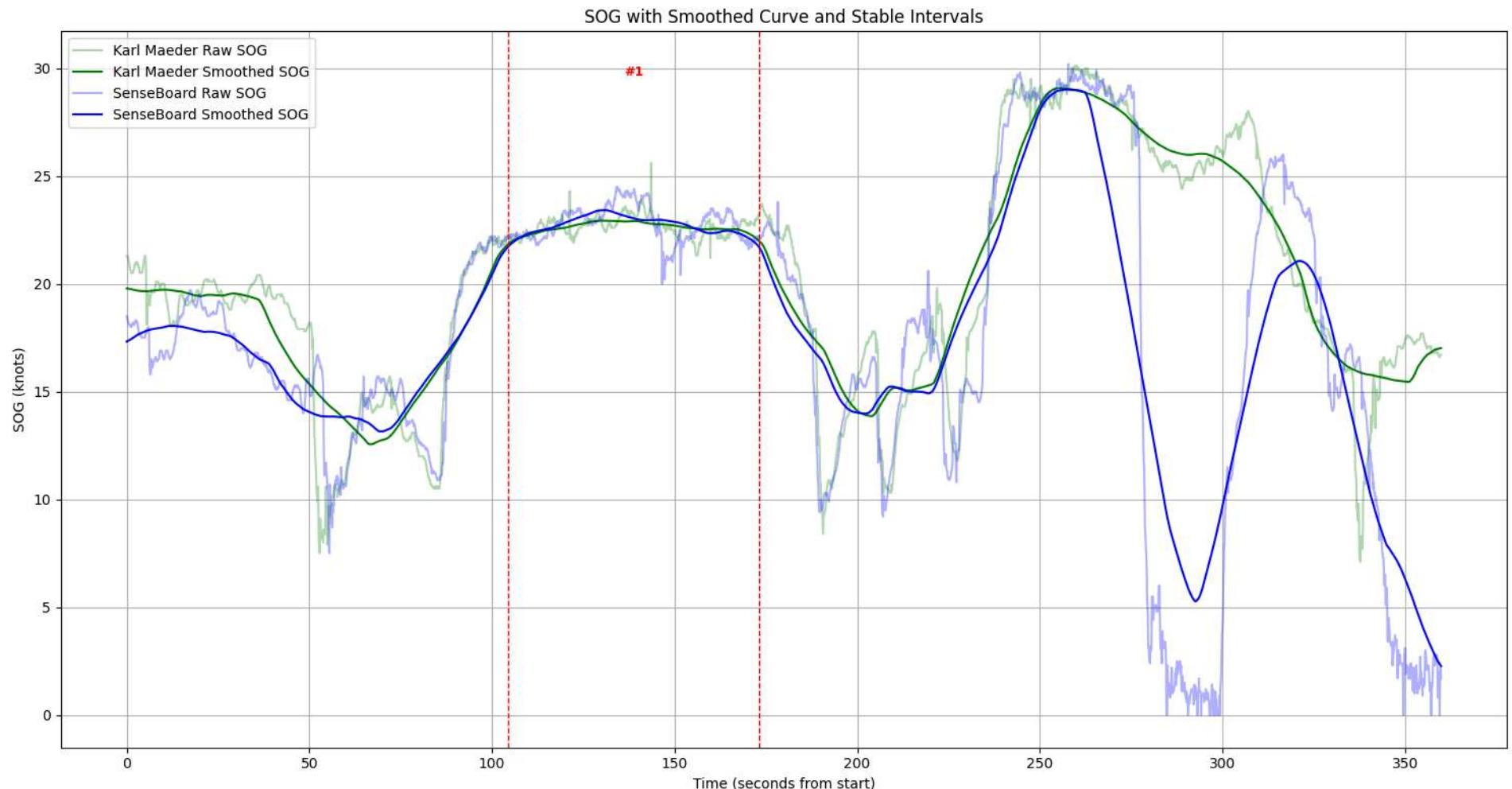
Ignoré: ../Data_Sailnjord/Straight_lines\09_06\09_06_Run3 (attendu 2 CSV, trouvé 1)
 Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\09_06\09_06_Run4



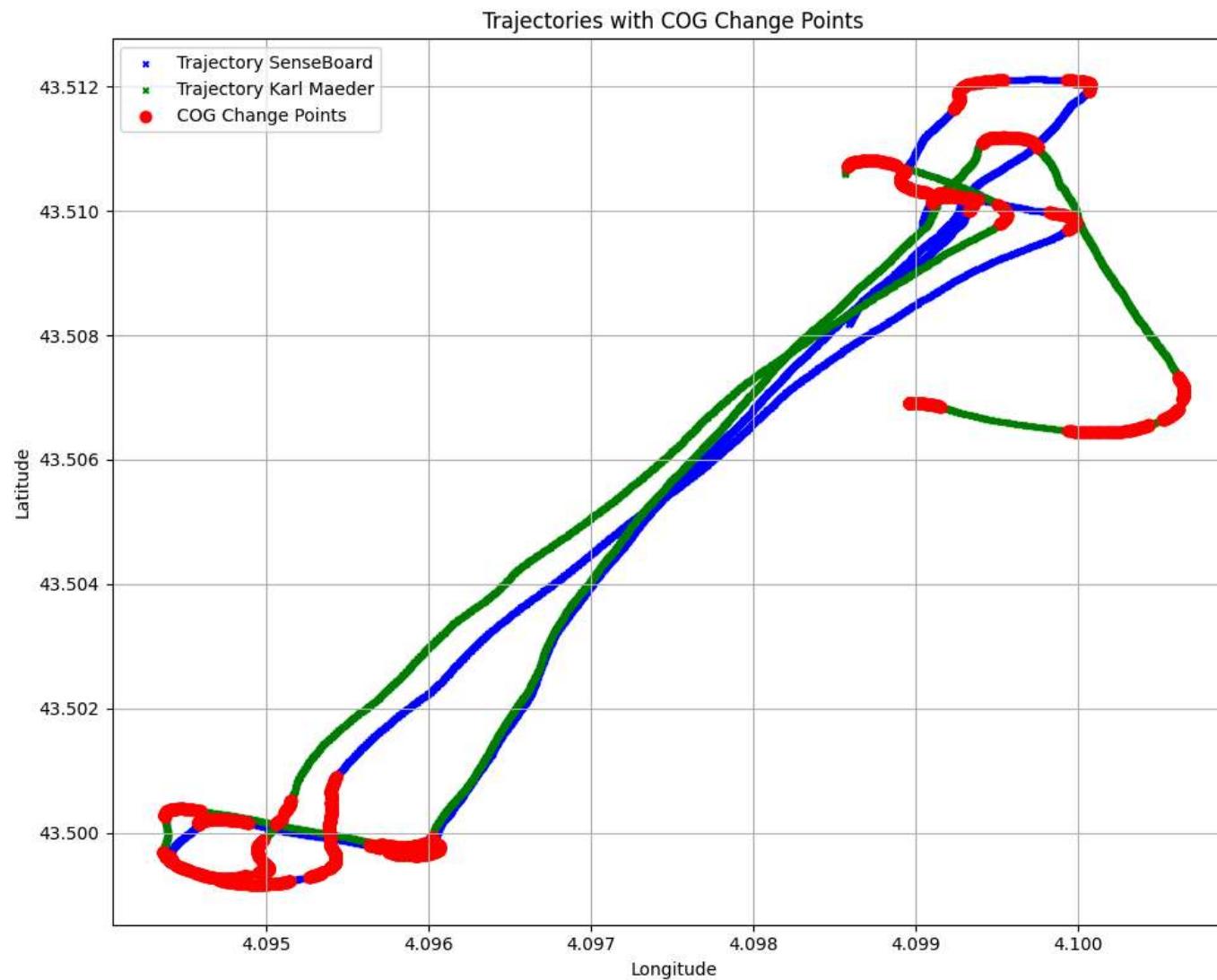


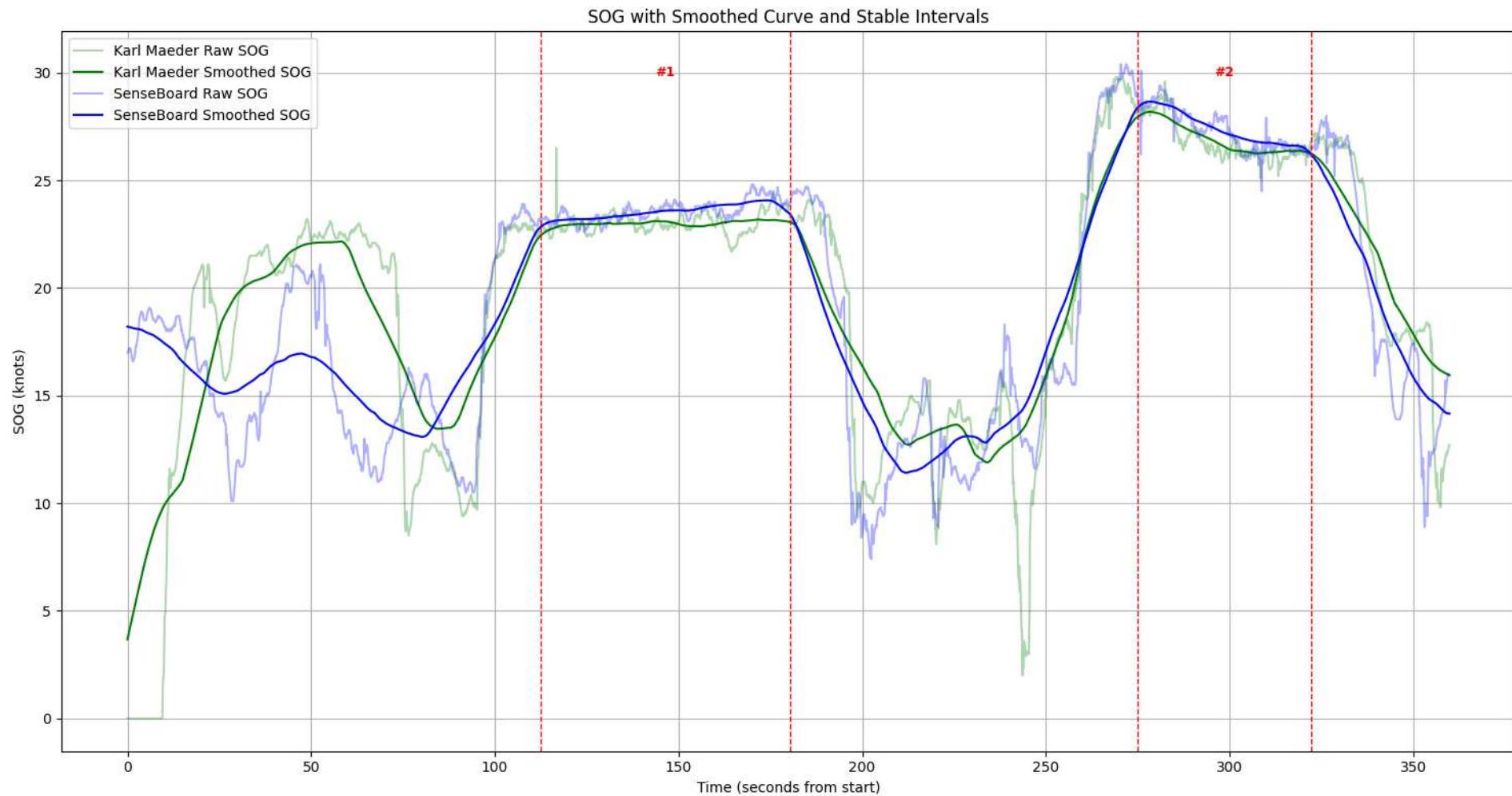
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\09_06\09_06_Run5



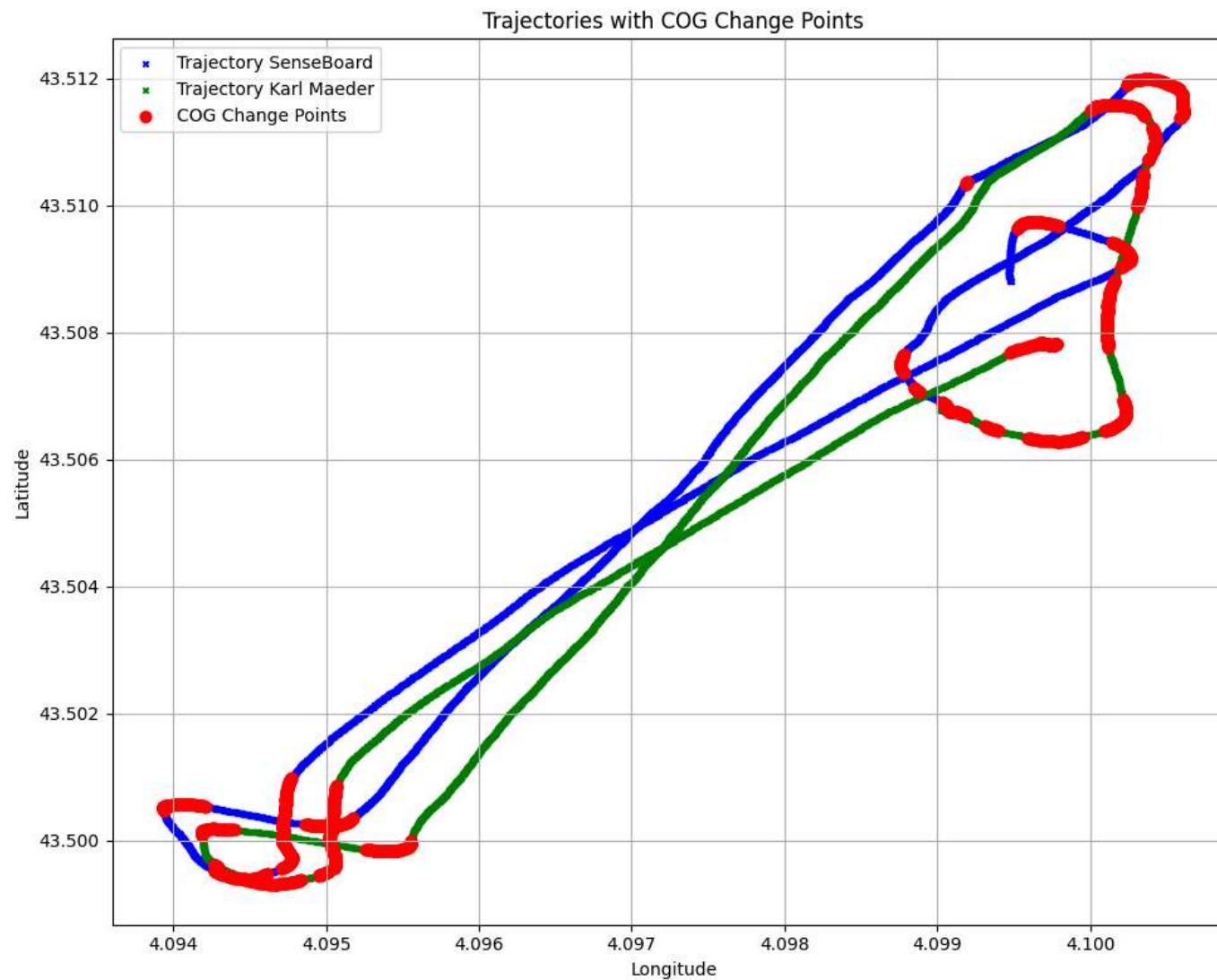


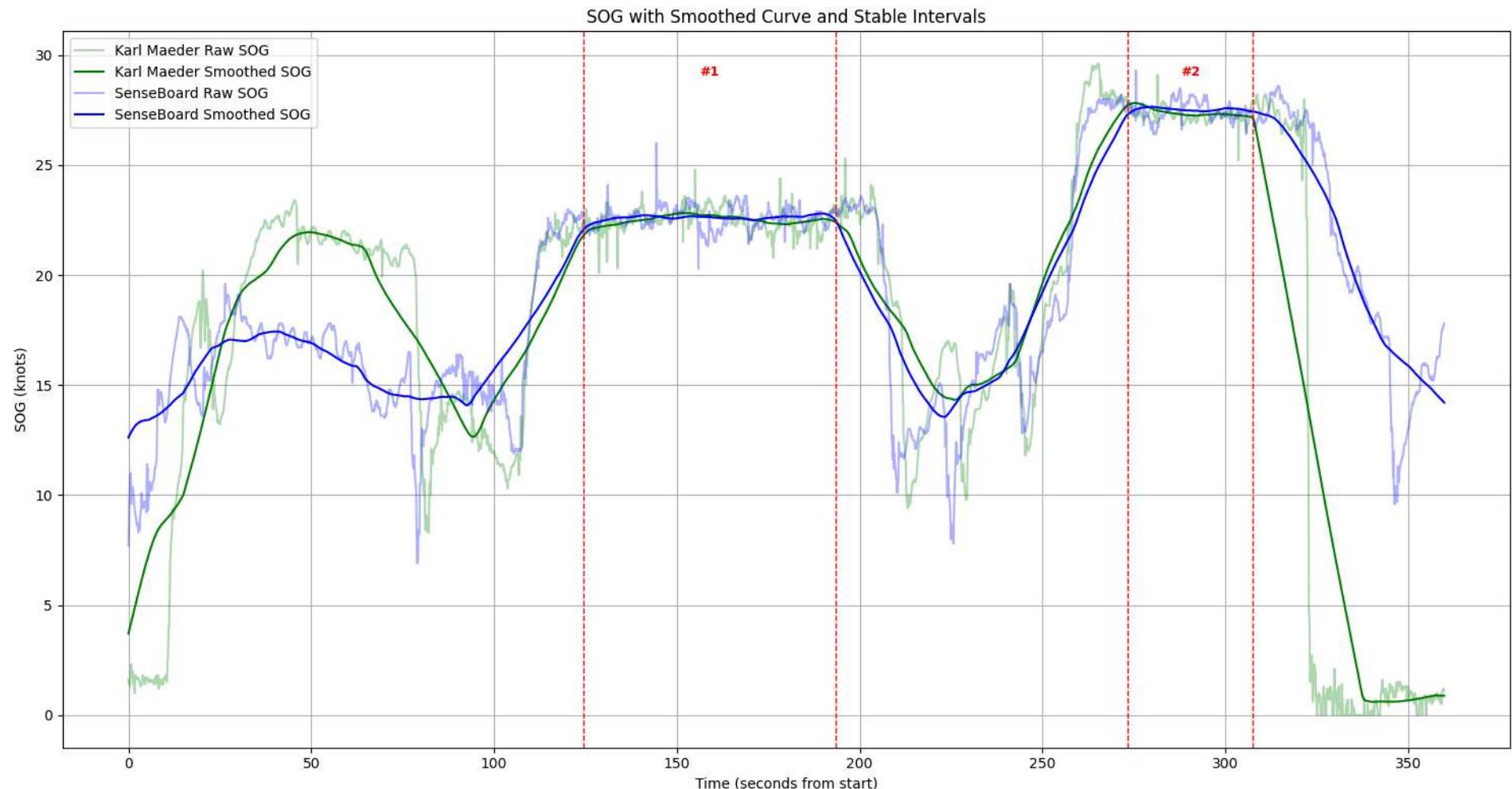
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\09_06\09_06_Run6



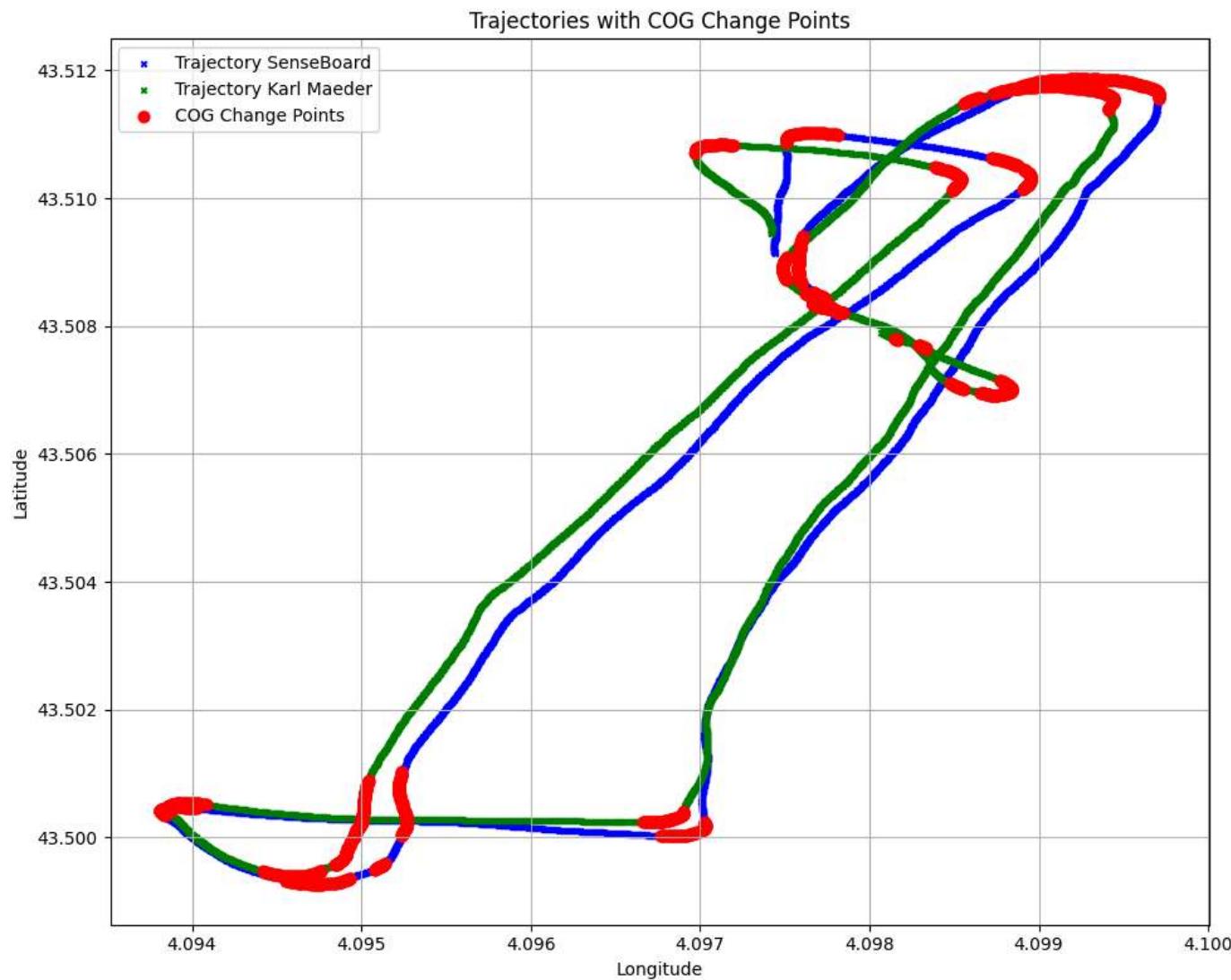


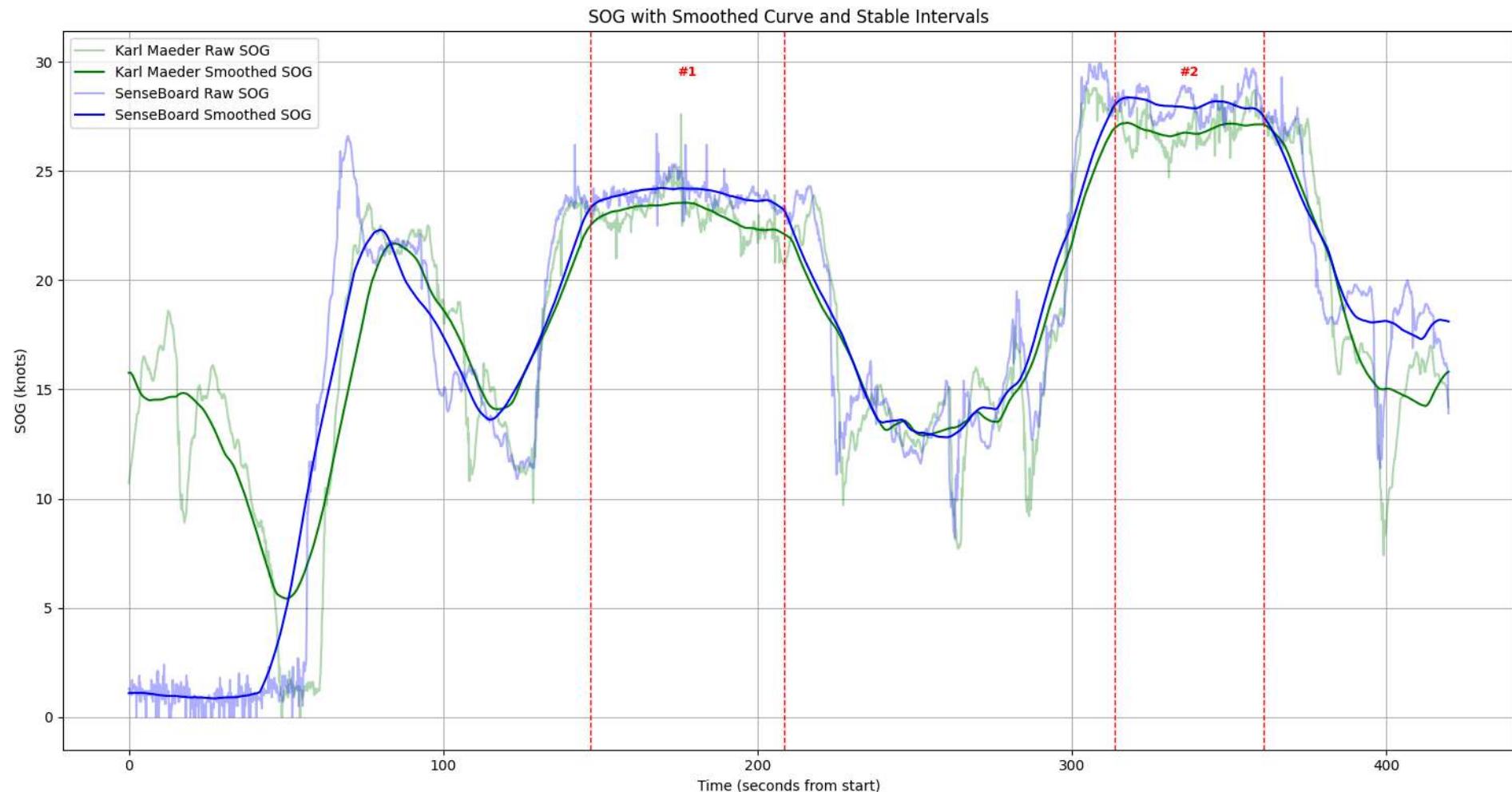
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\09_06\09_06_Run7



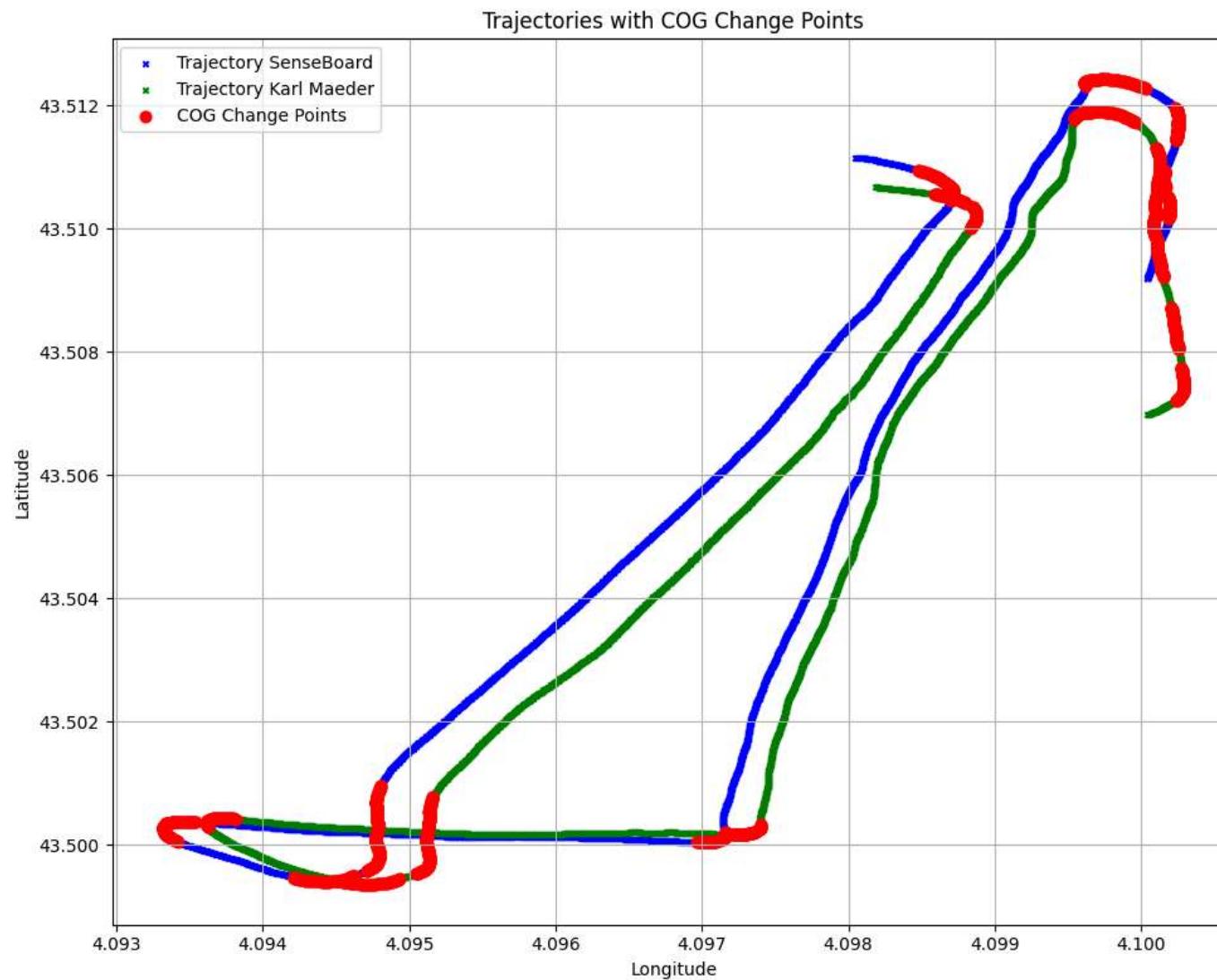


Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\09_06\09_06_Run8

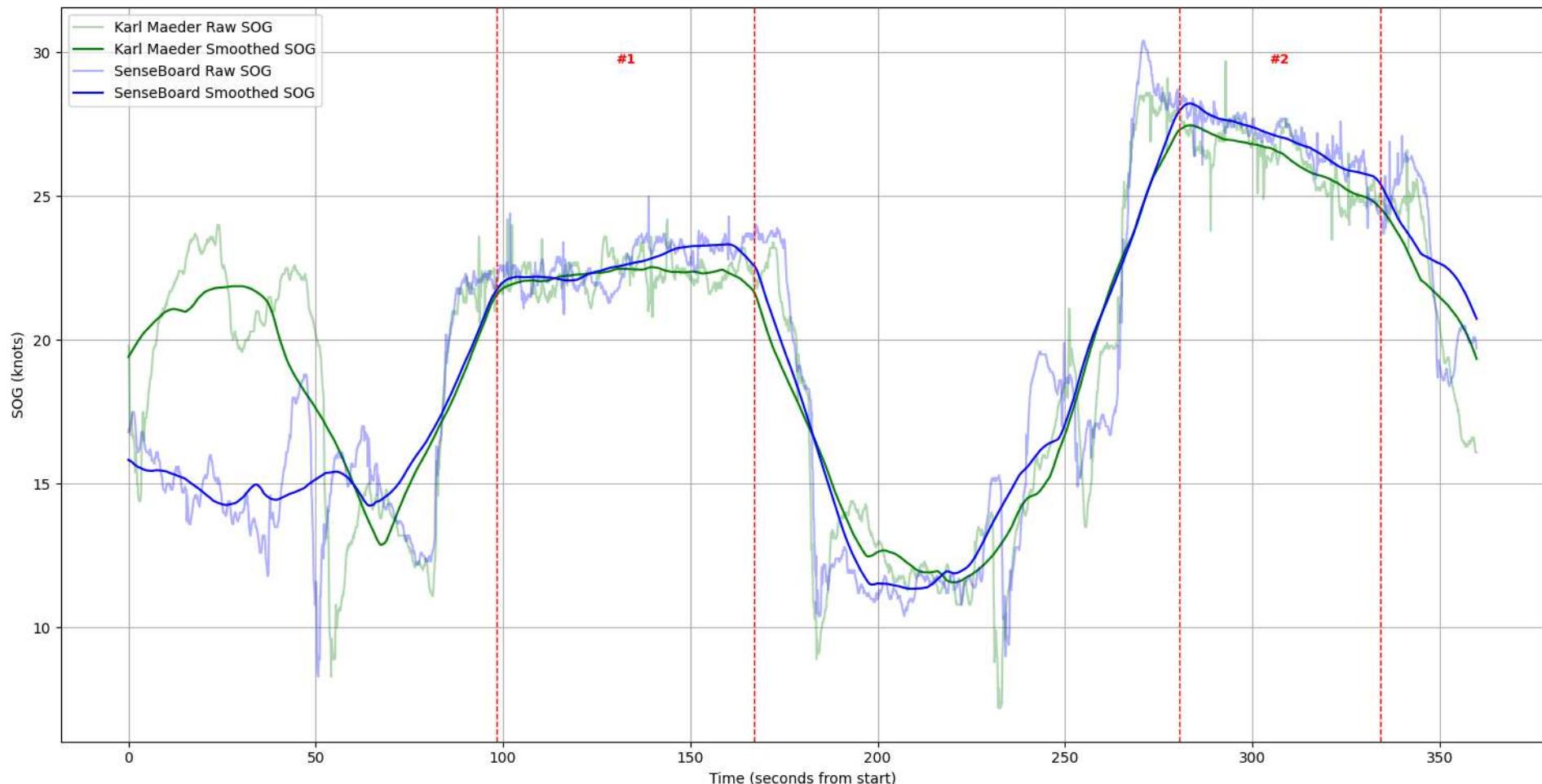




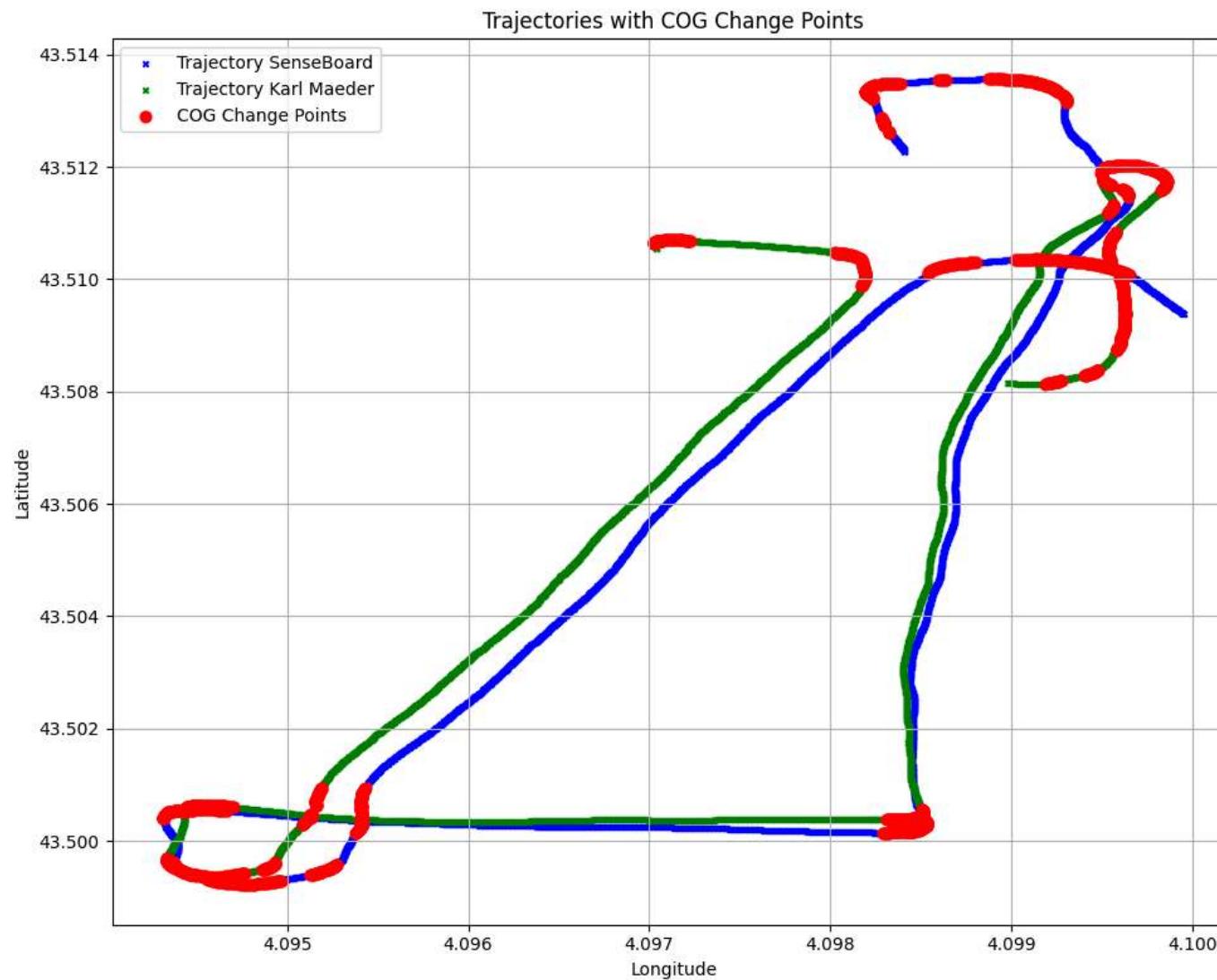
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\09_06\09_06_Run9

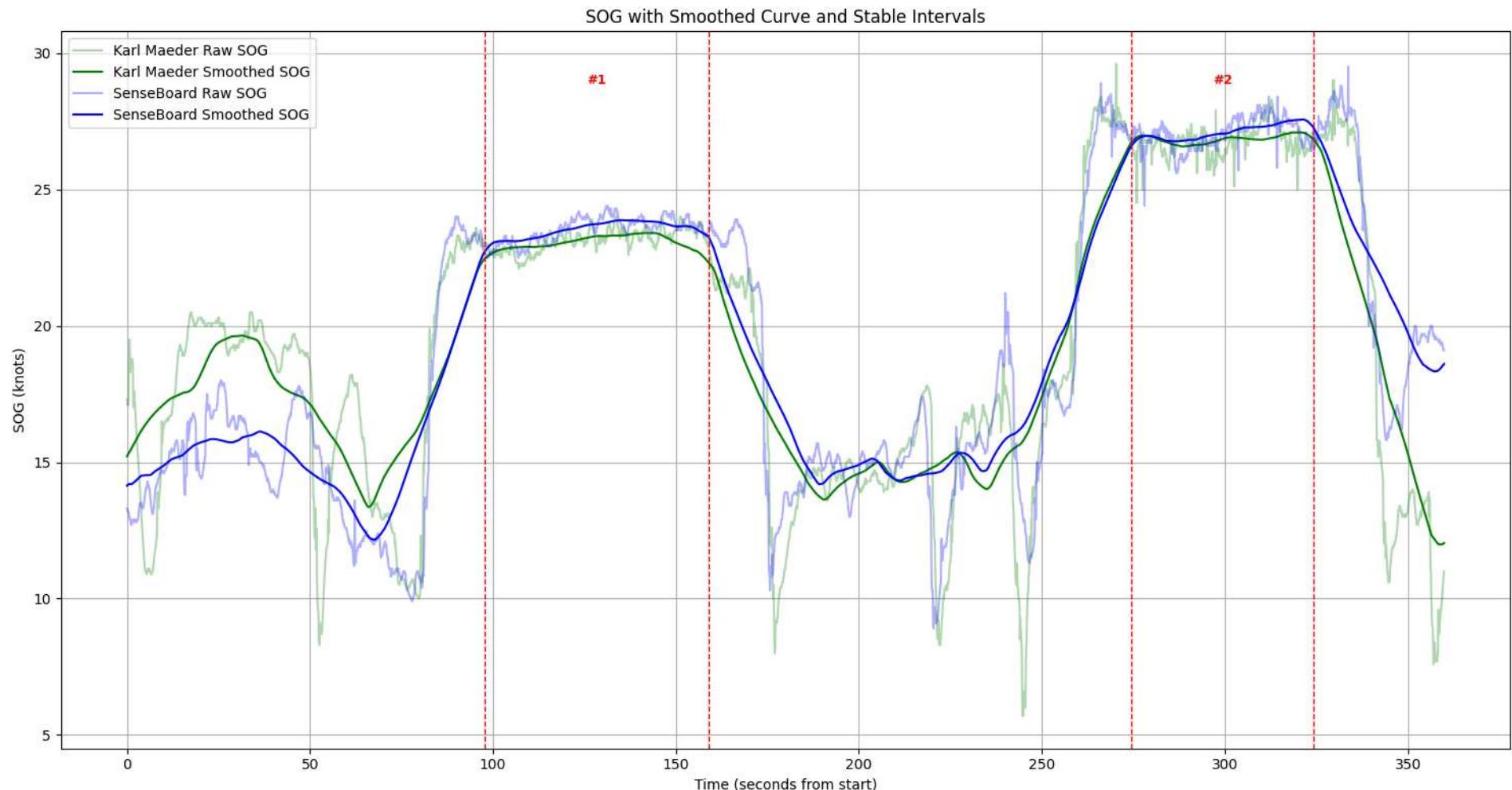


SOG with Smoothed Curve and Stable Intervals

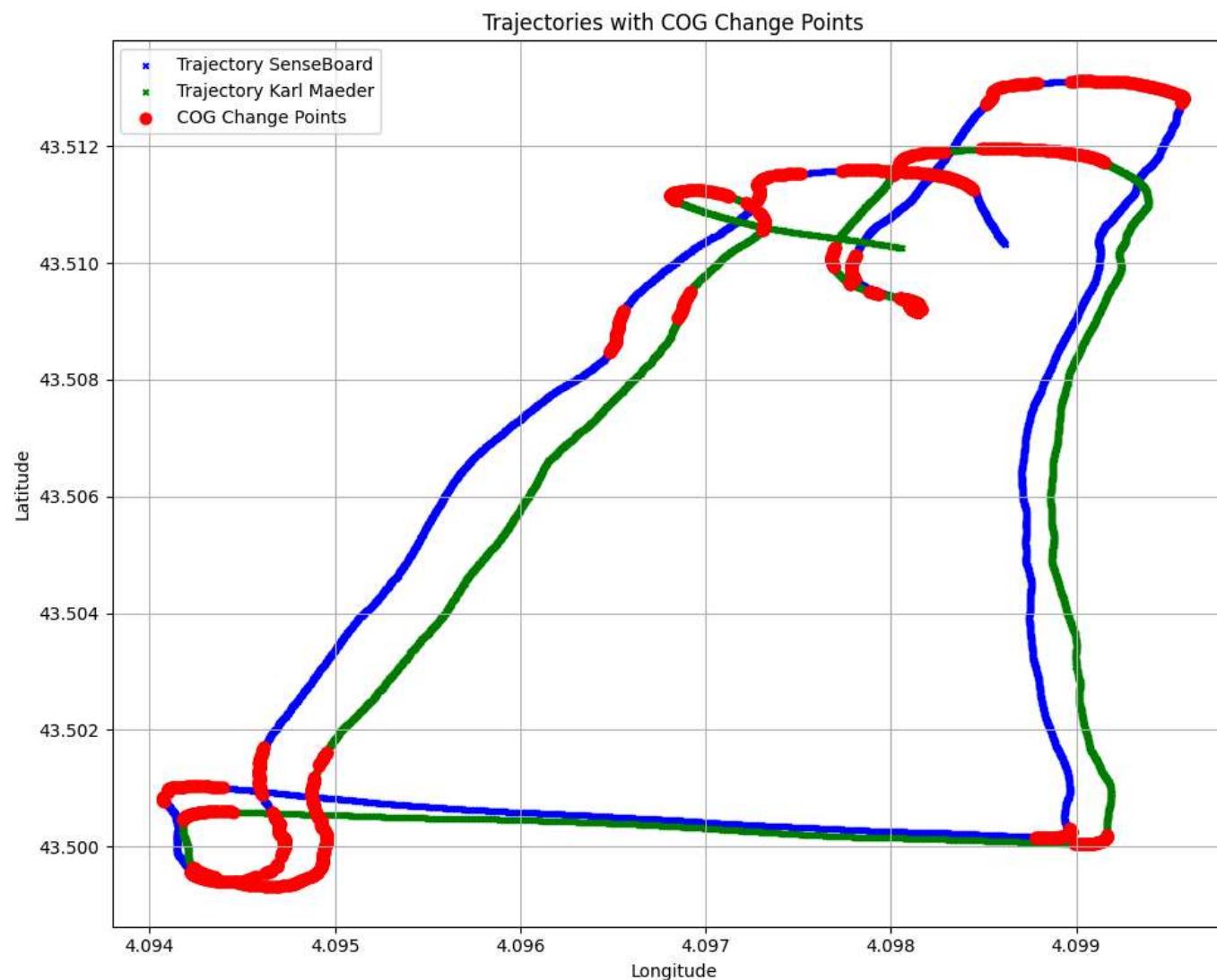


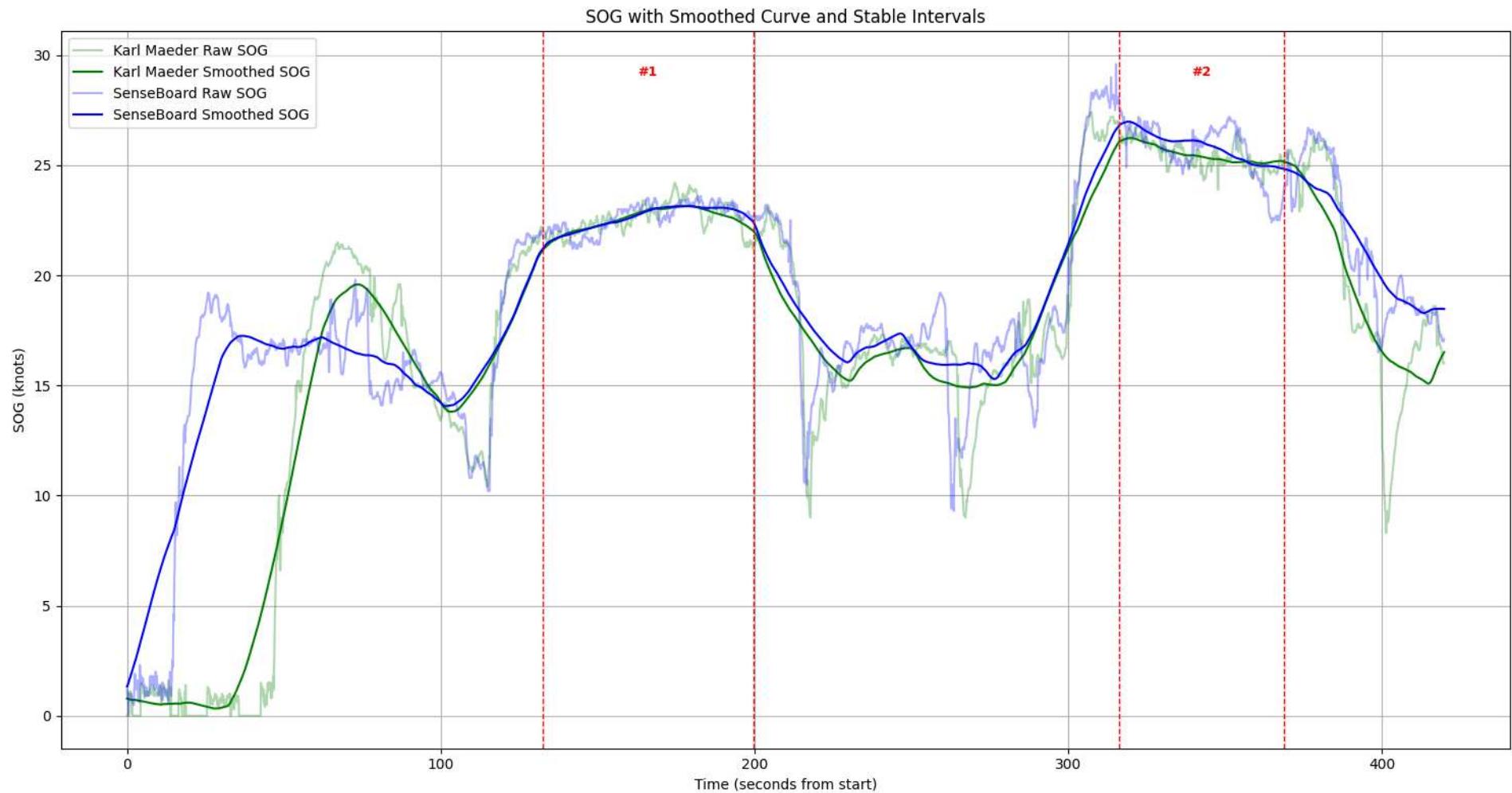
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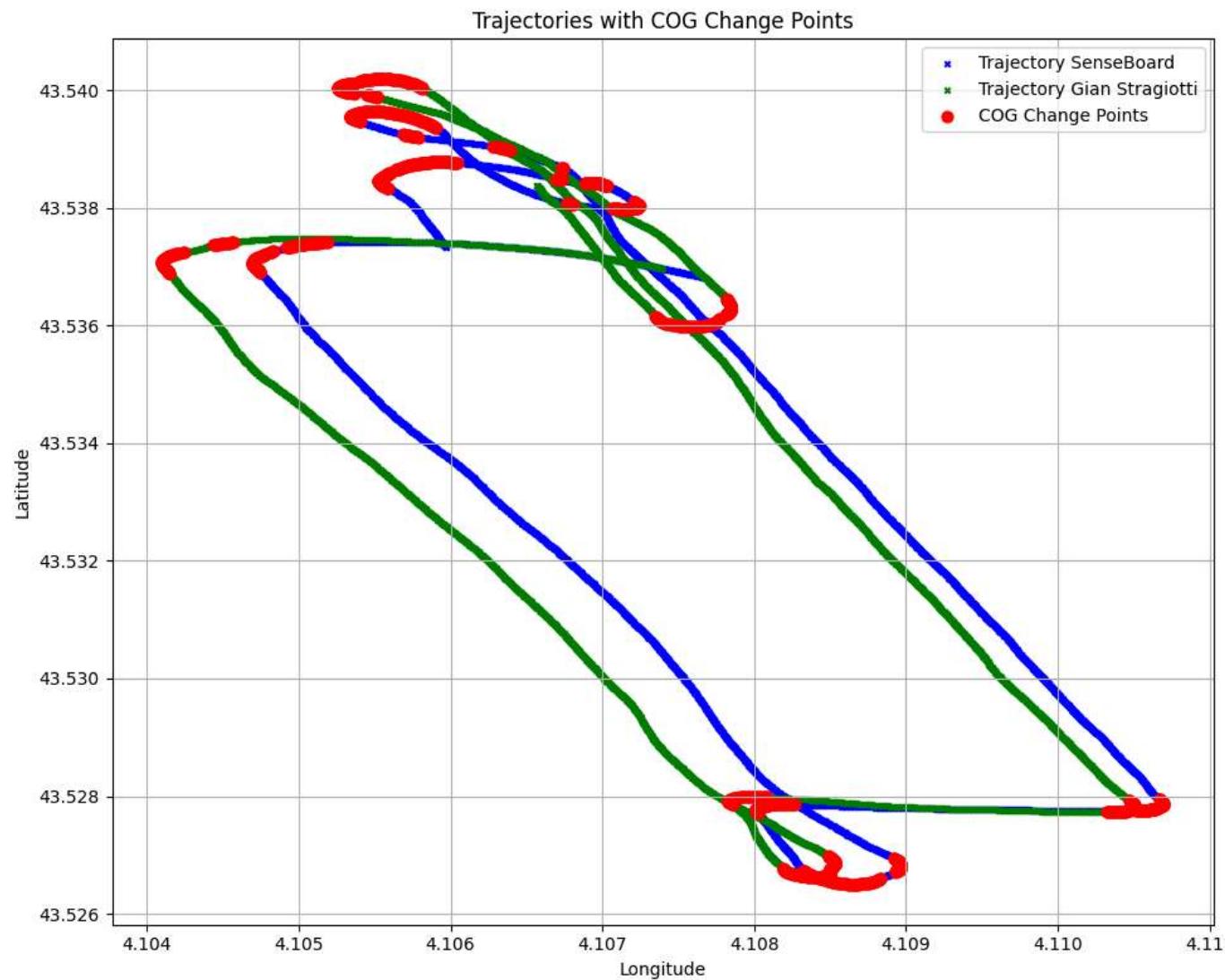


Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\09_06\09_06_Run11

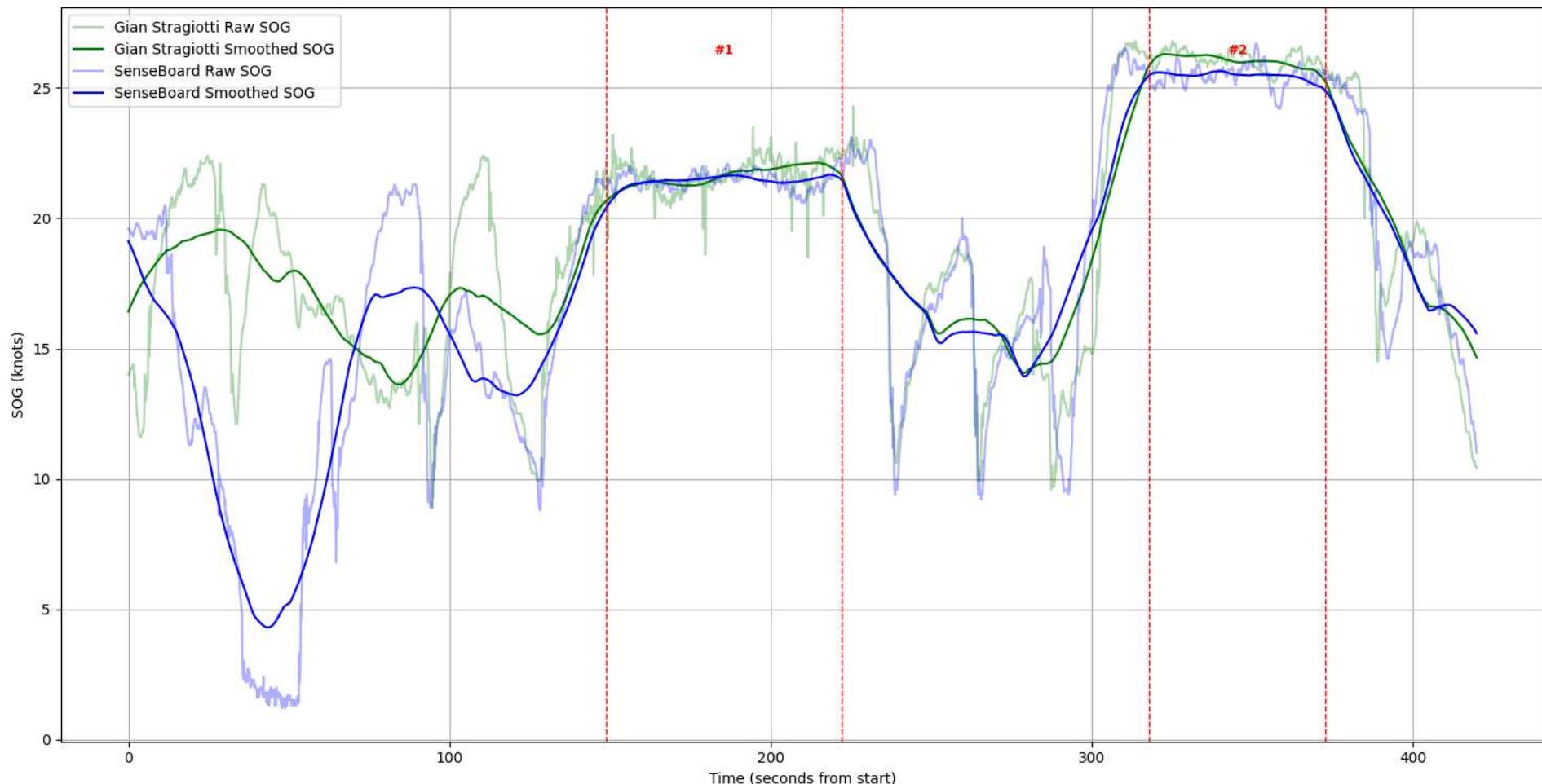




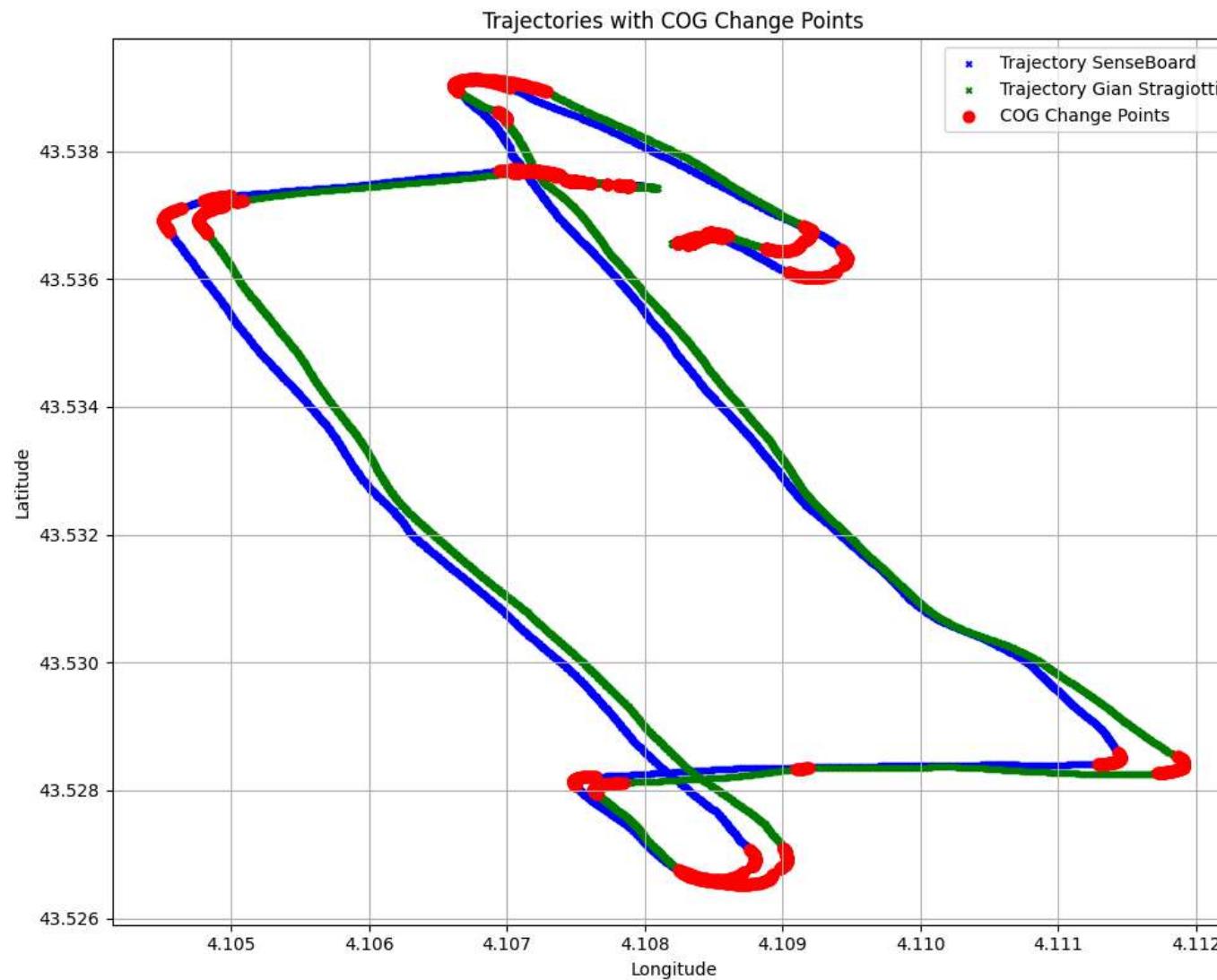
Ignoré: ../Data_Sailnjord/Straight_lines\09_06\Interview and equipment (attendu 2 CSV, trouvé 0)
 Ignoré: ../Data_Sailnjord/Straight_lines\09_06\senseboard_log (attendu 2 CSV, trouvé 0)
 Analyse: Gian Stragiotti.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\10_06\10_06_Run1

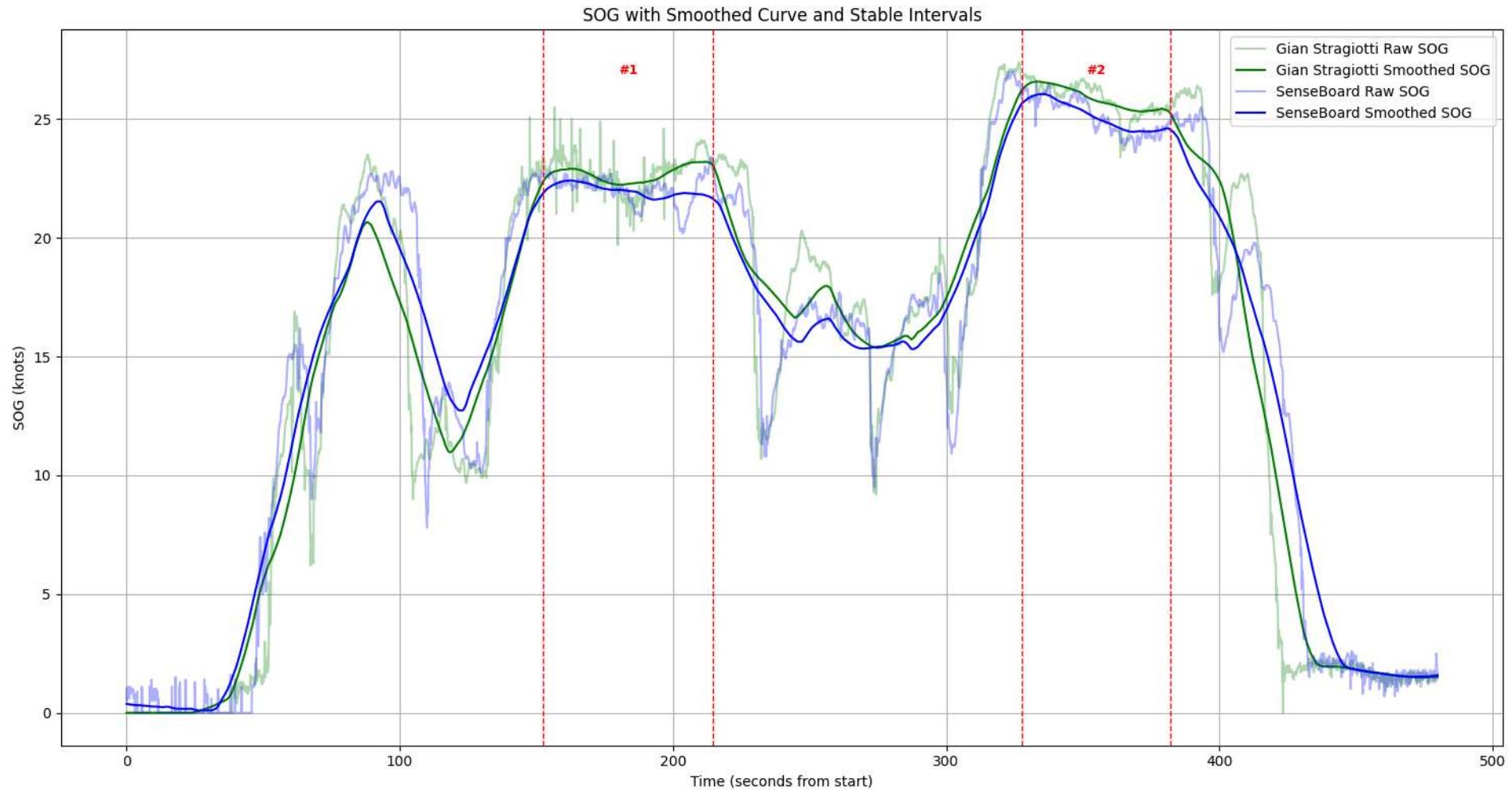


SOG with Smoothed Curve and Stable Intervals

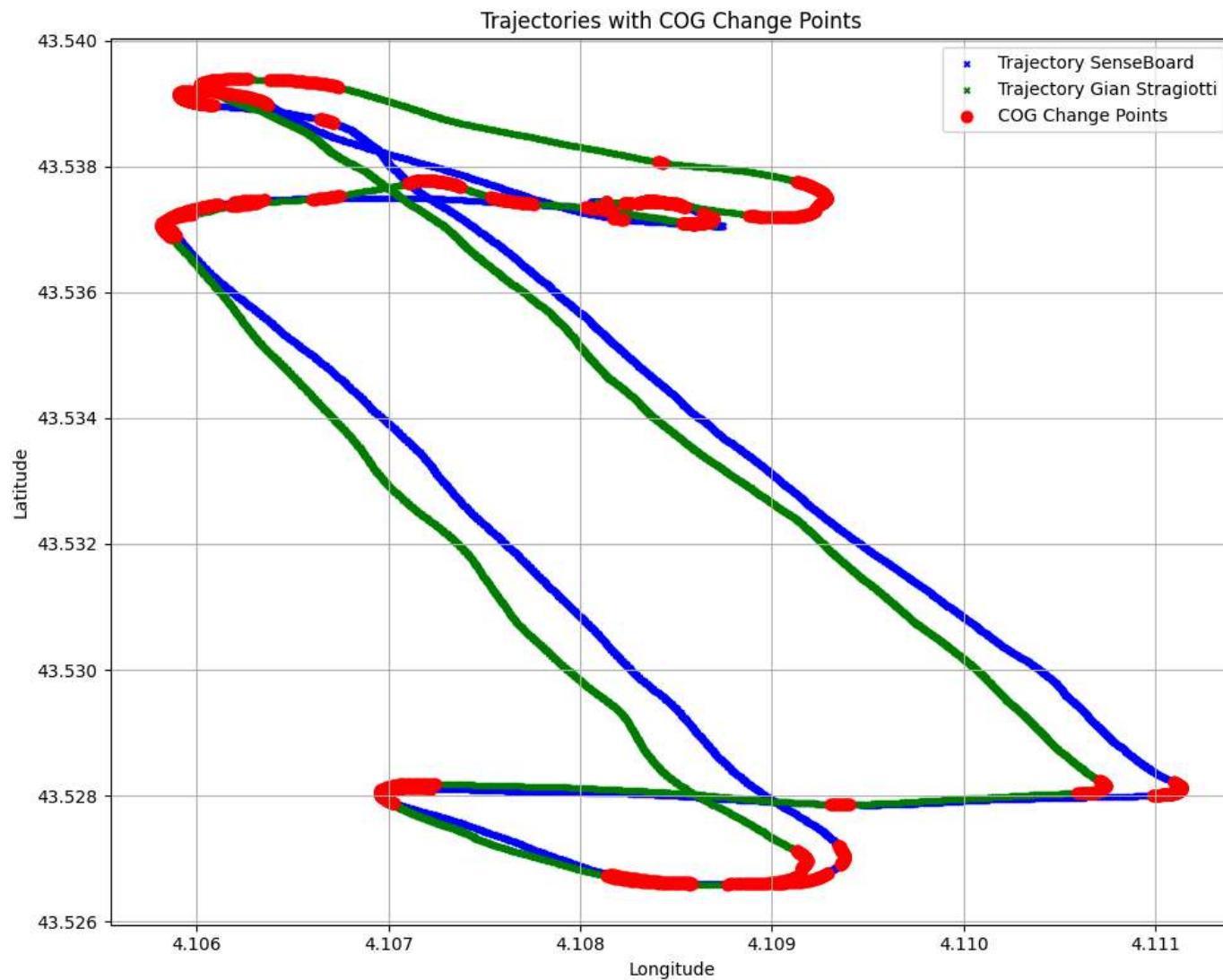


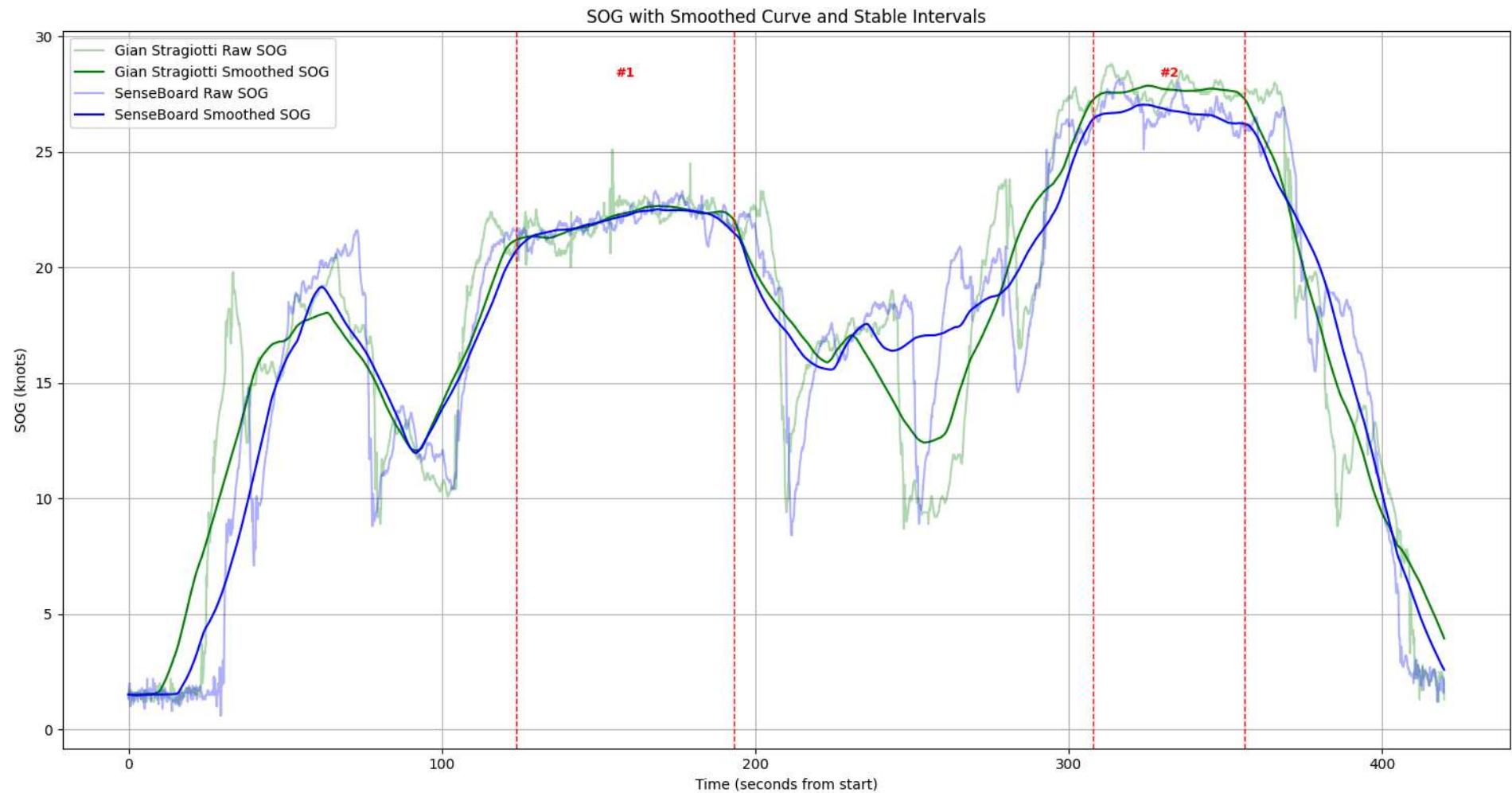
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\10_06\10_06_Run2



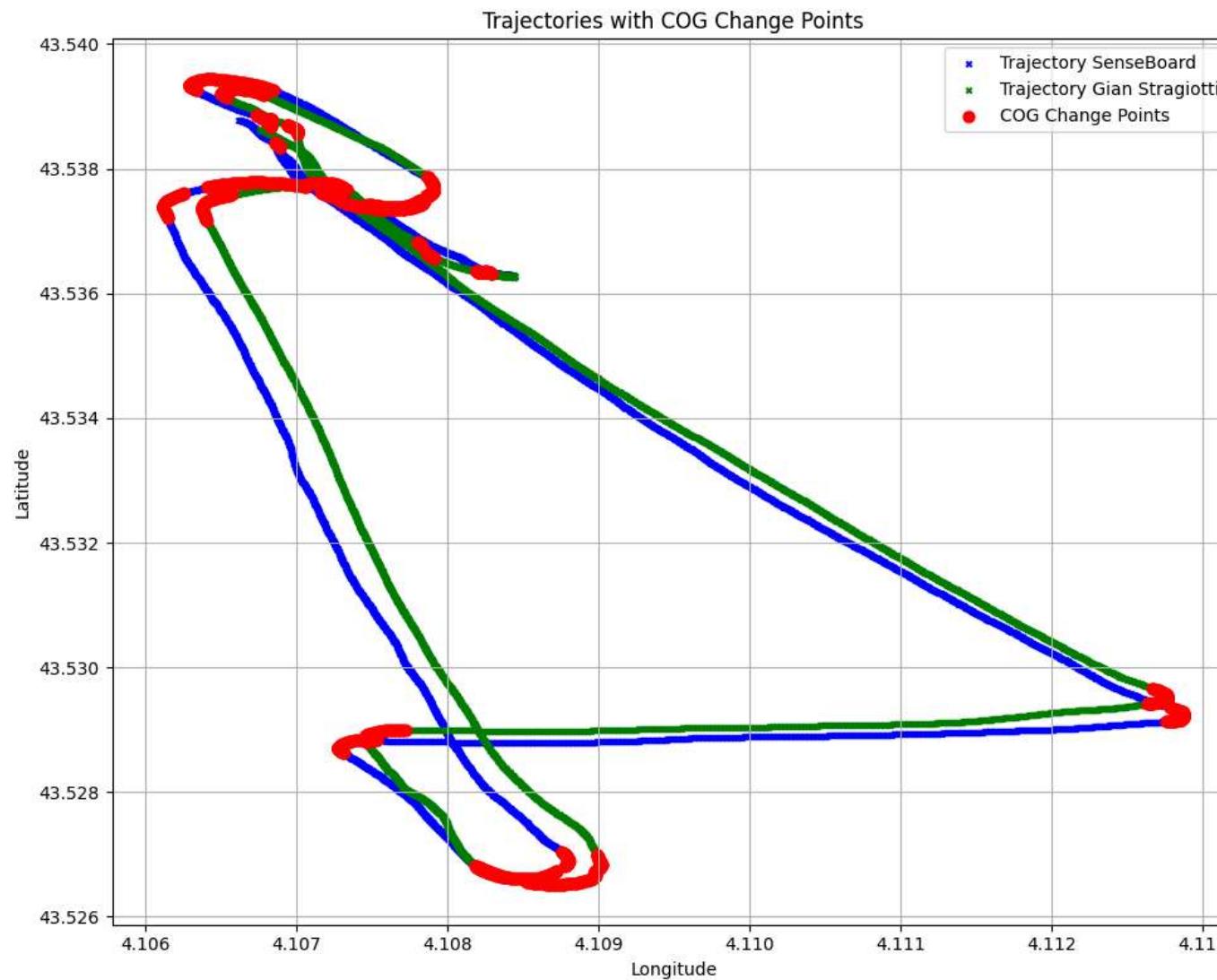


Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\10_06\10_06_Run3

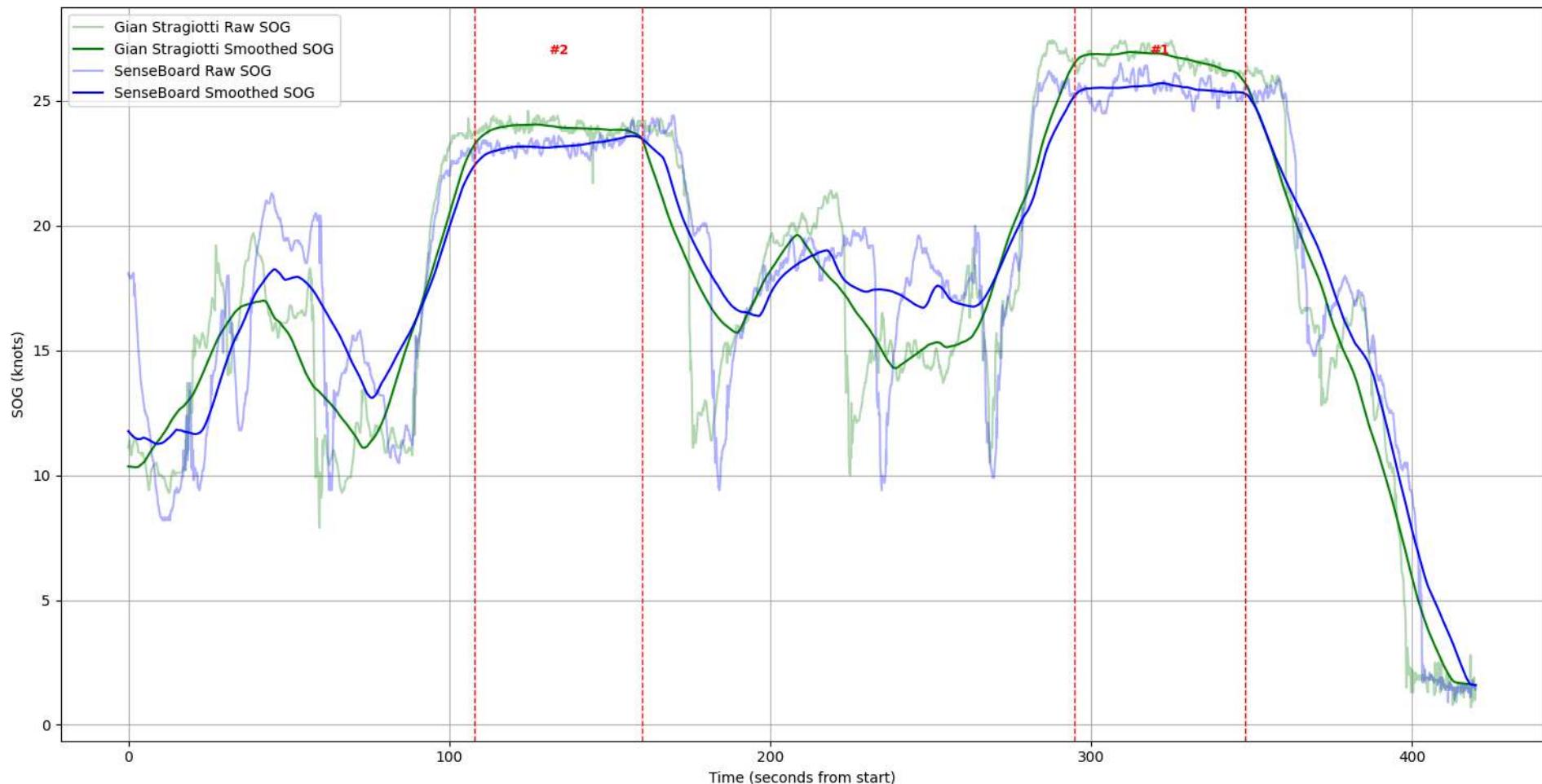




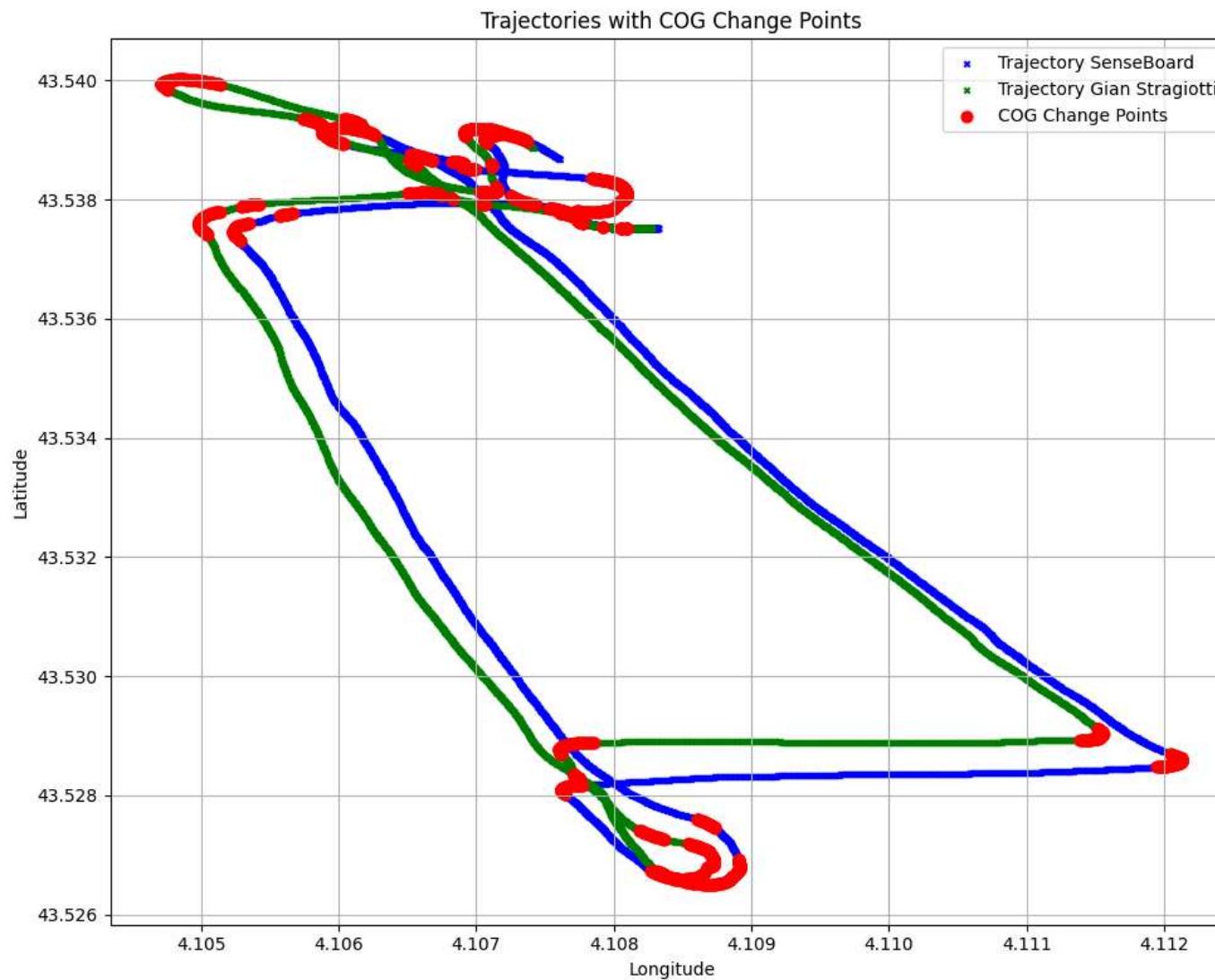
Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\10_06\10_06_Run4

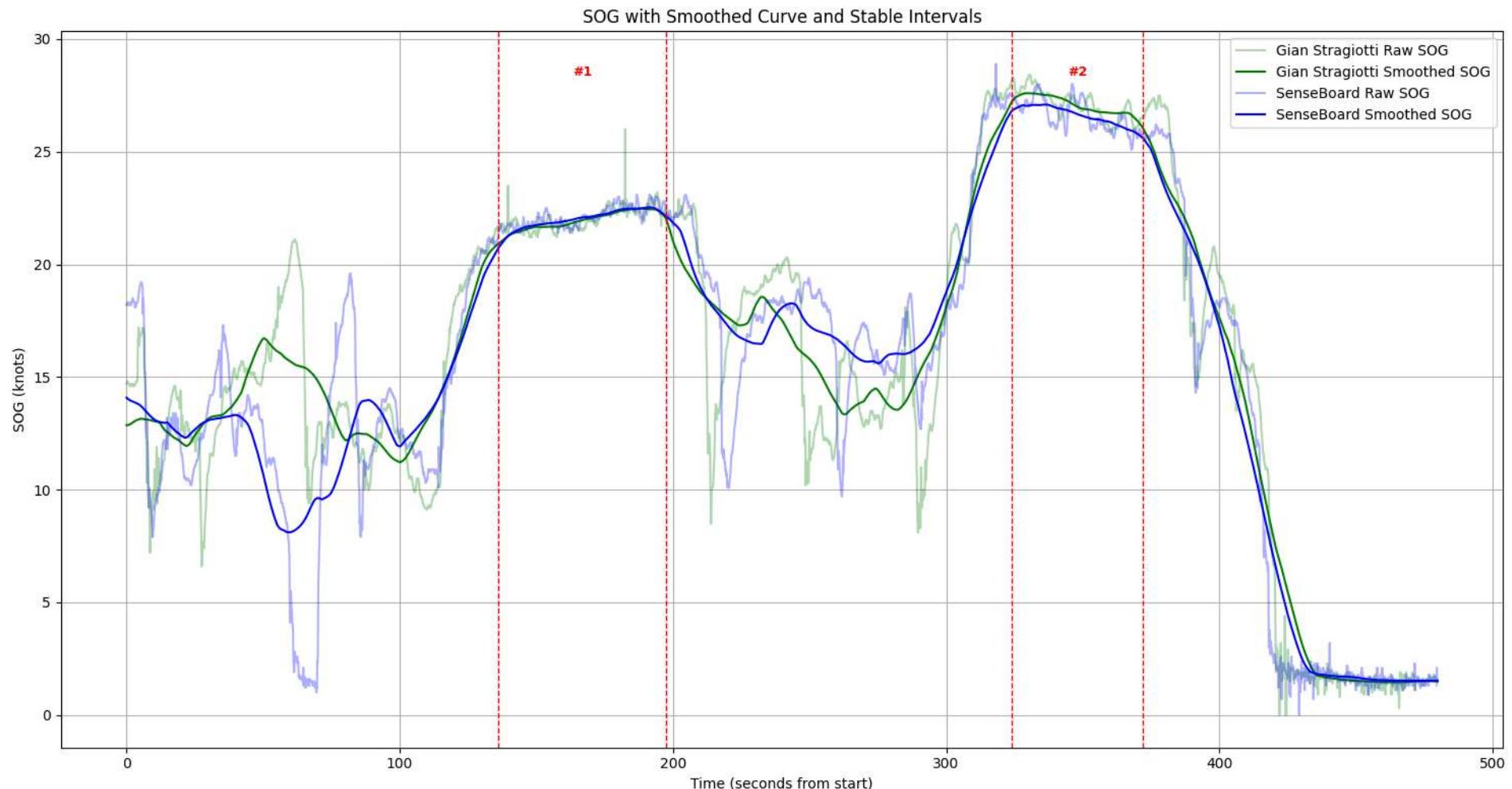


SOG with Smoothed Curve and Stable Intervals

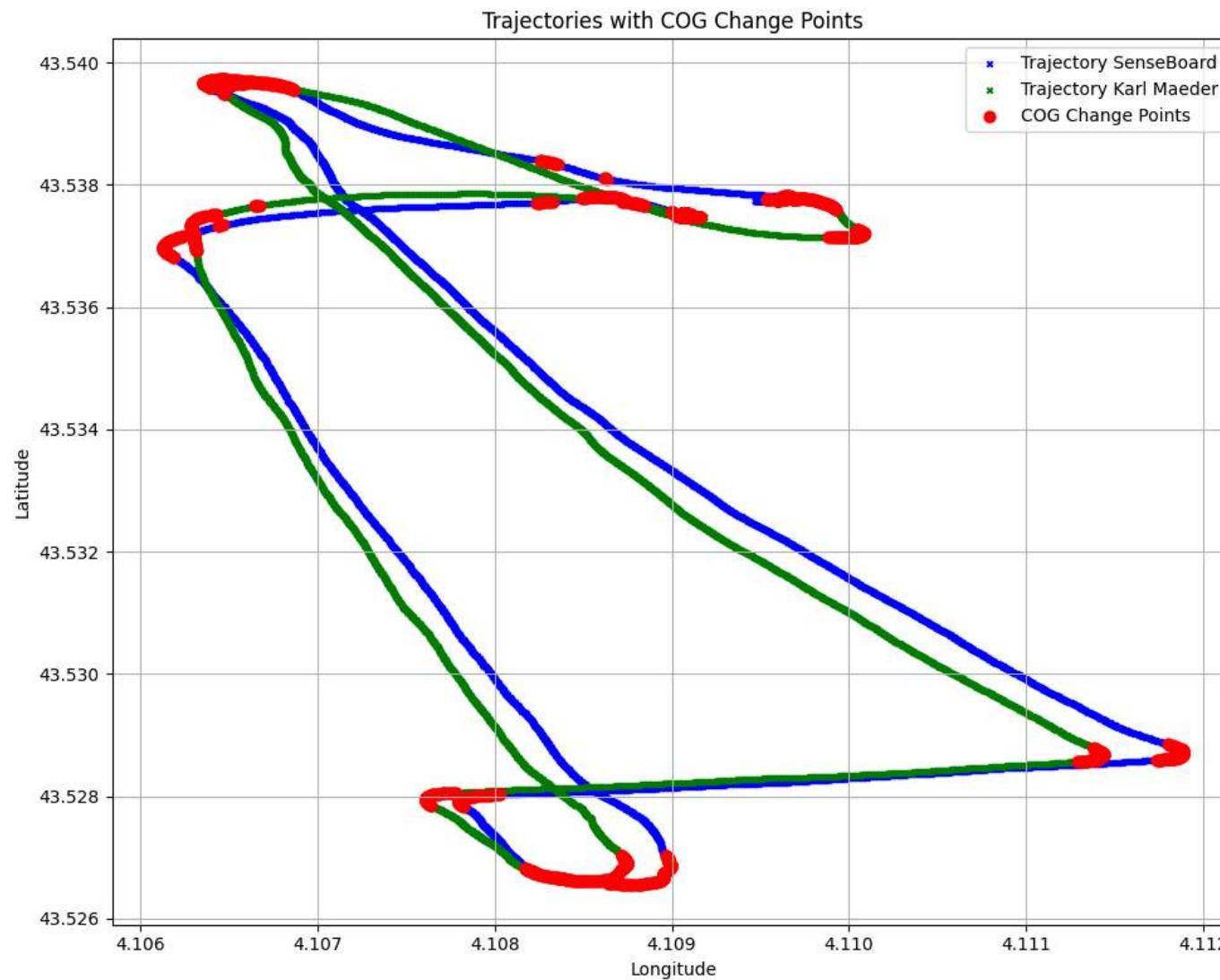


Analyse: Gian Stragiotti.csv et SenseBoard.csv dans/Data_Sailnjord/Straight_lines\10_06\10_06_Run5

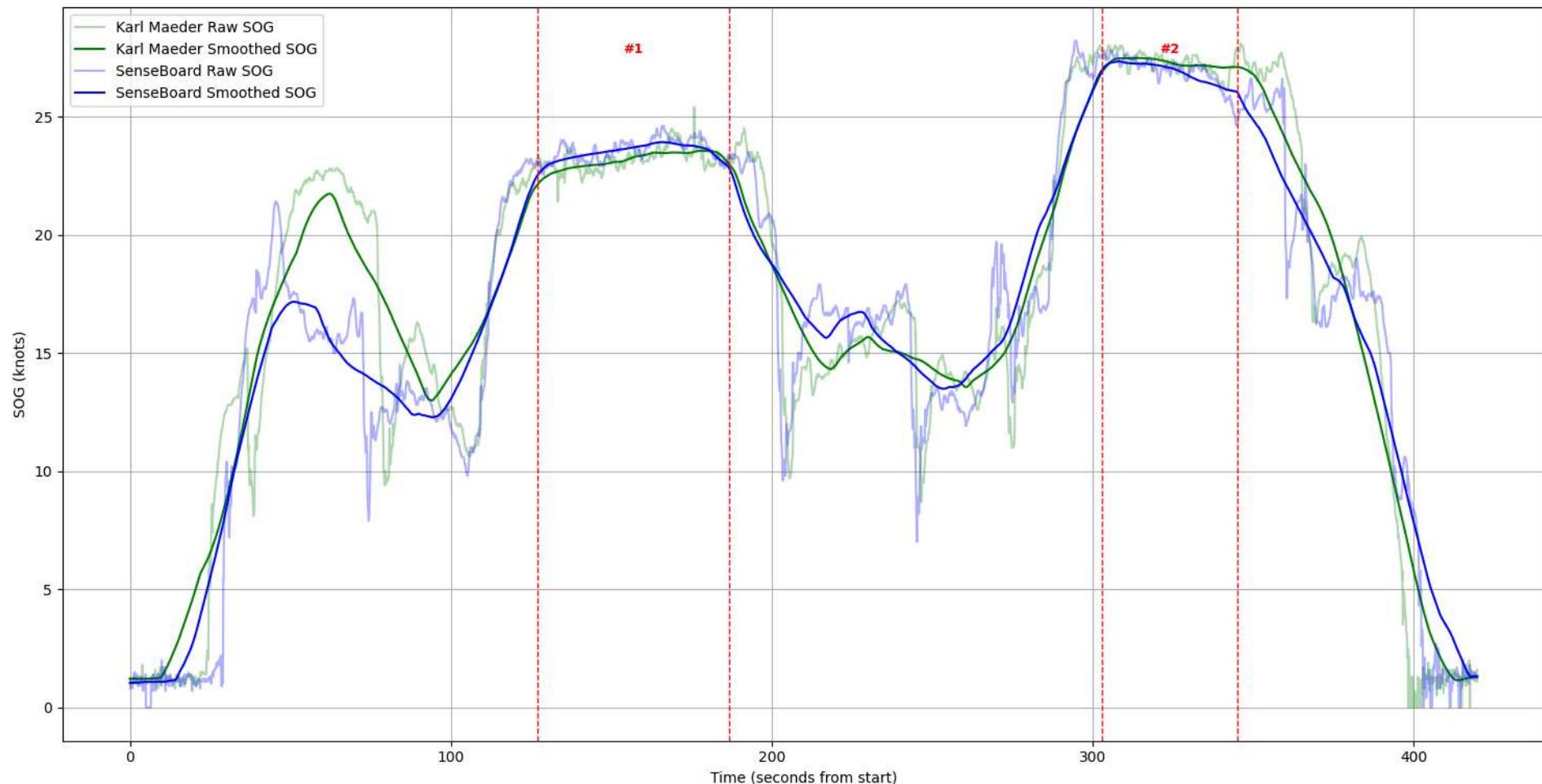




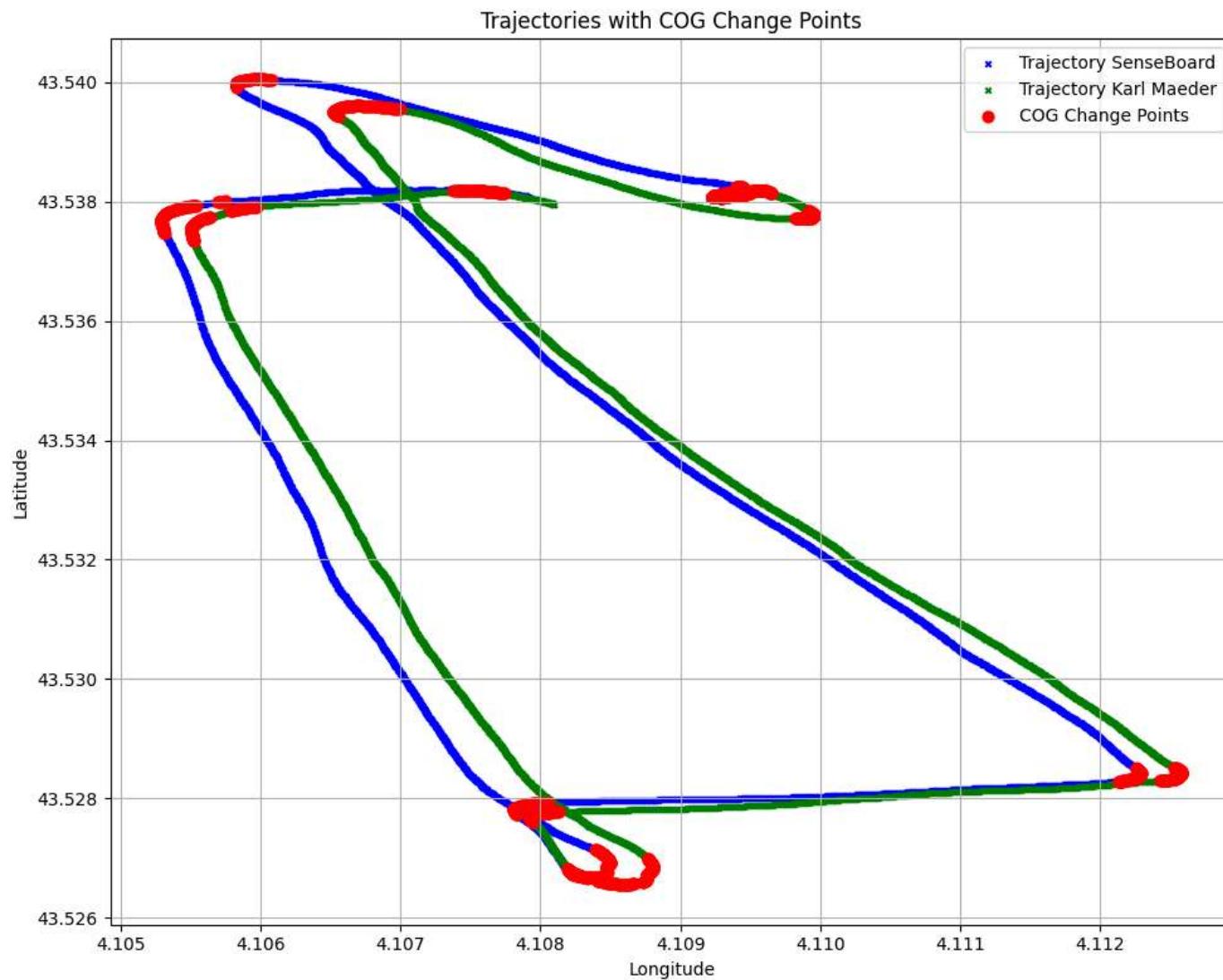
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\10_06\10_06_Run6



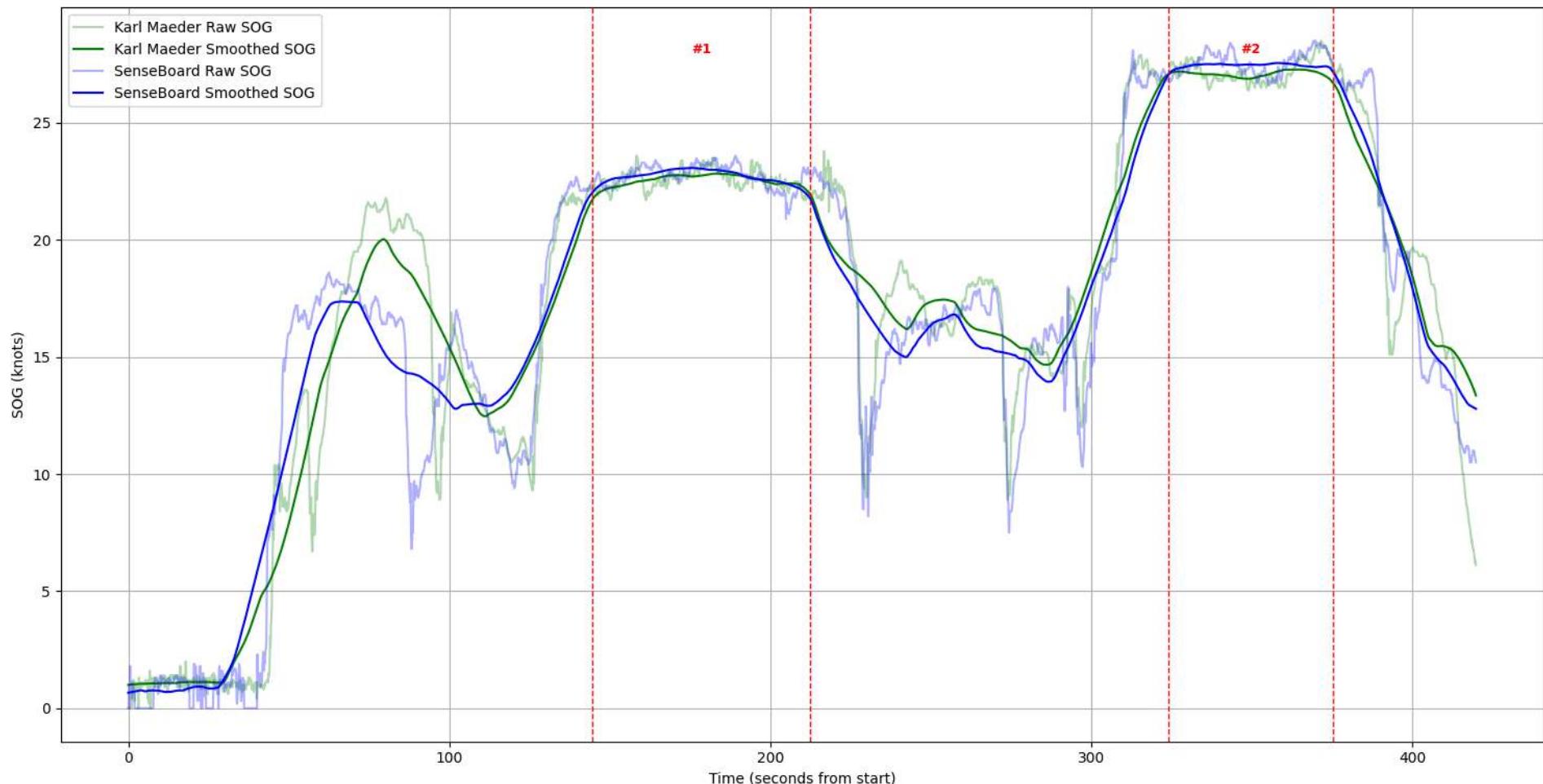
SOG with Smoothed Curve and Stable Intervals



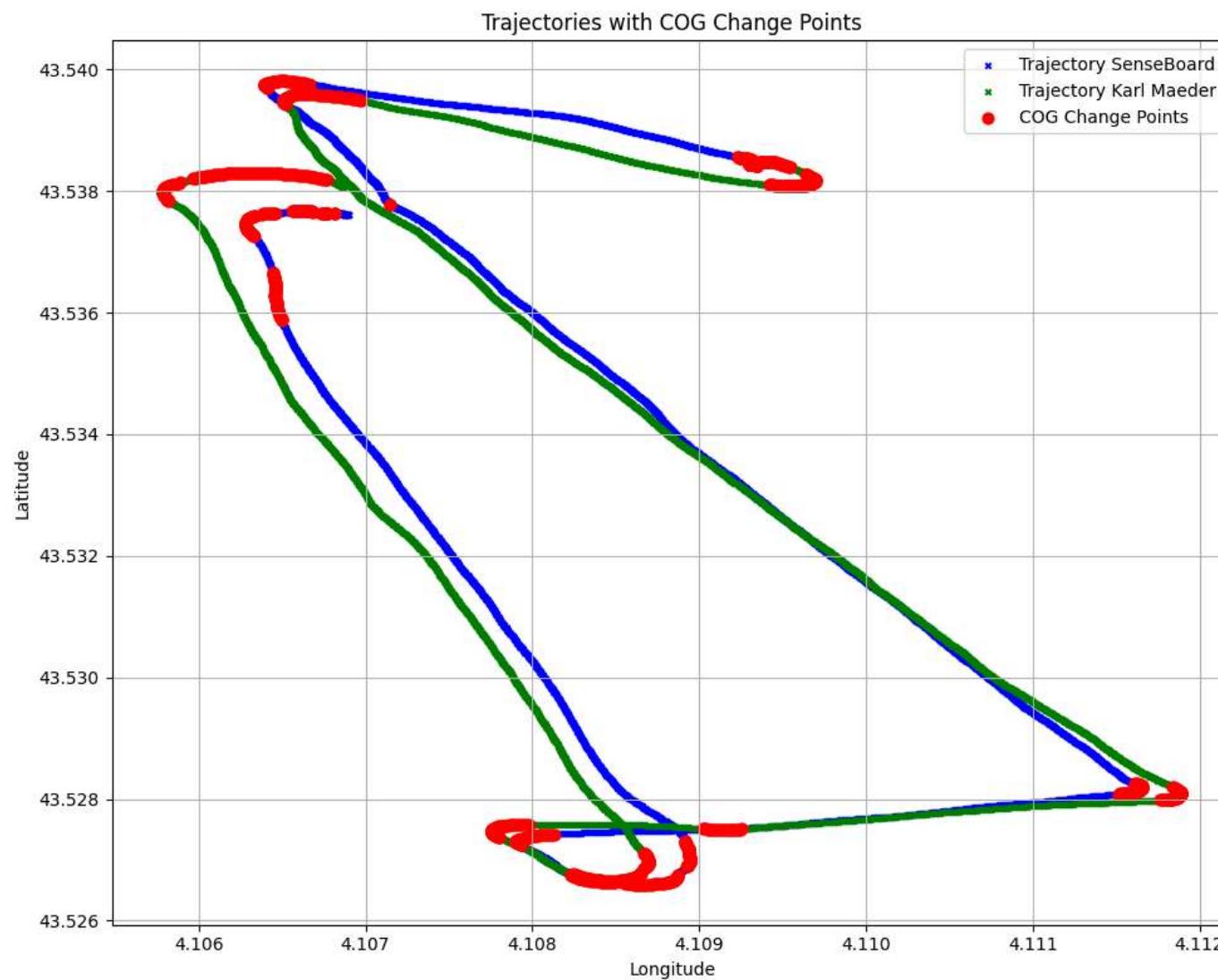
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\10_06\10_06_Run7

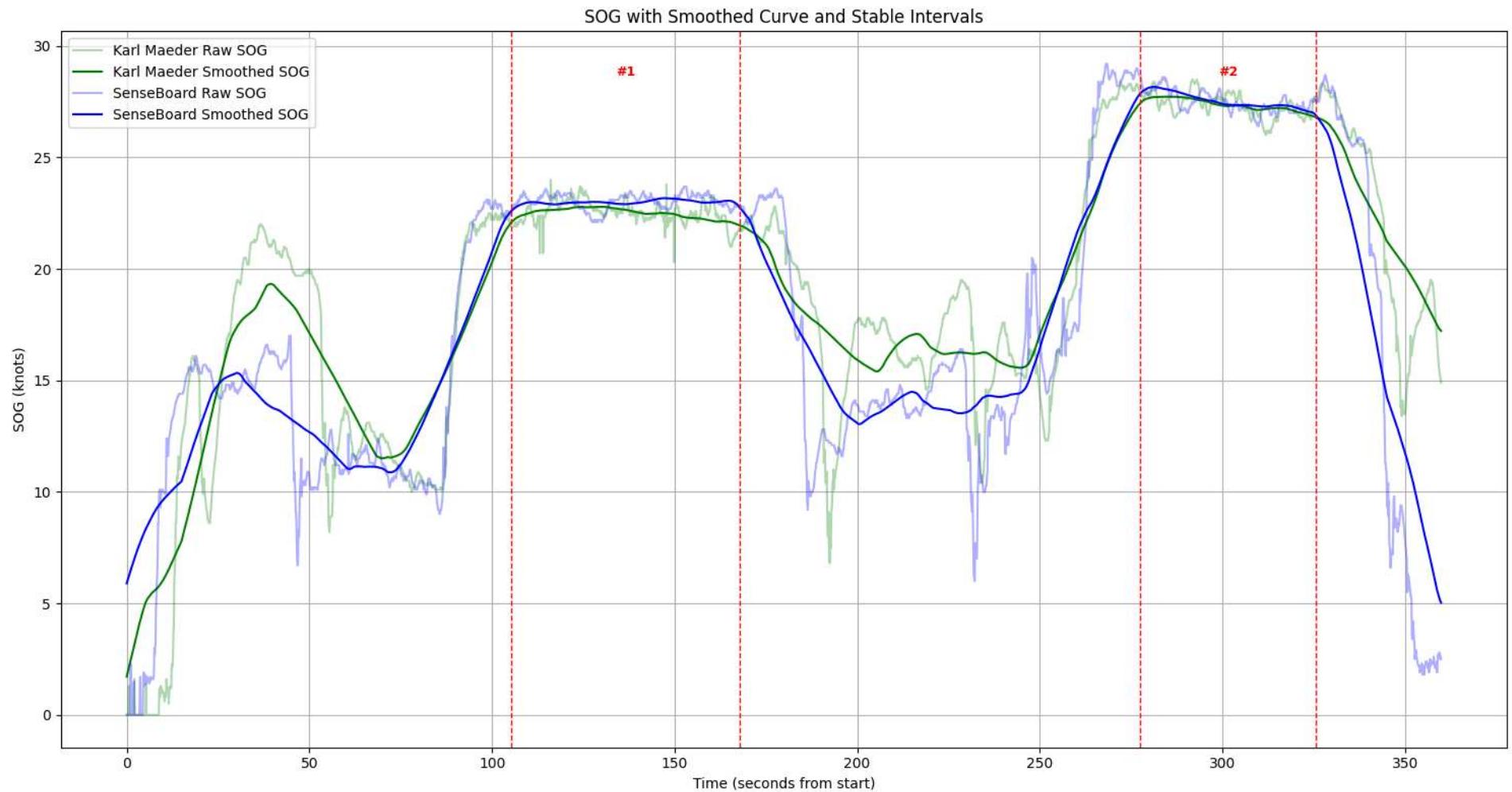


SOG with Smoothed Curve and Stable Intervals

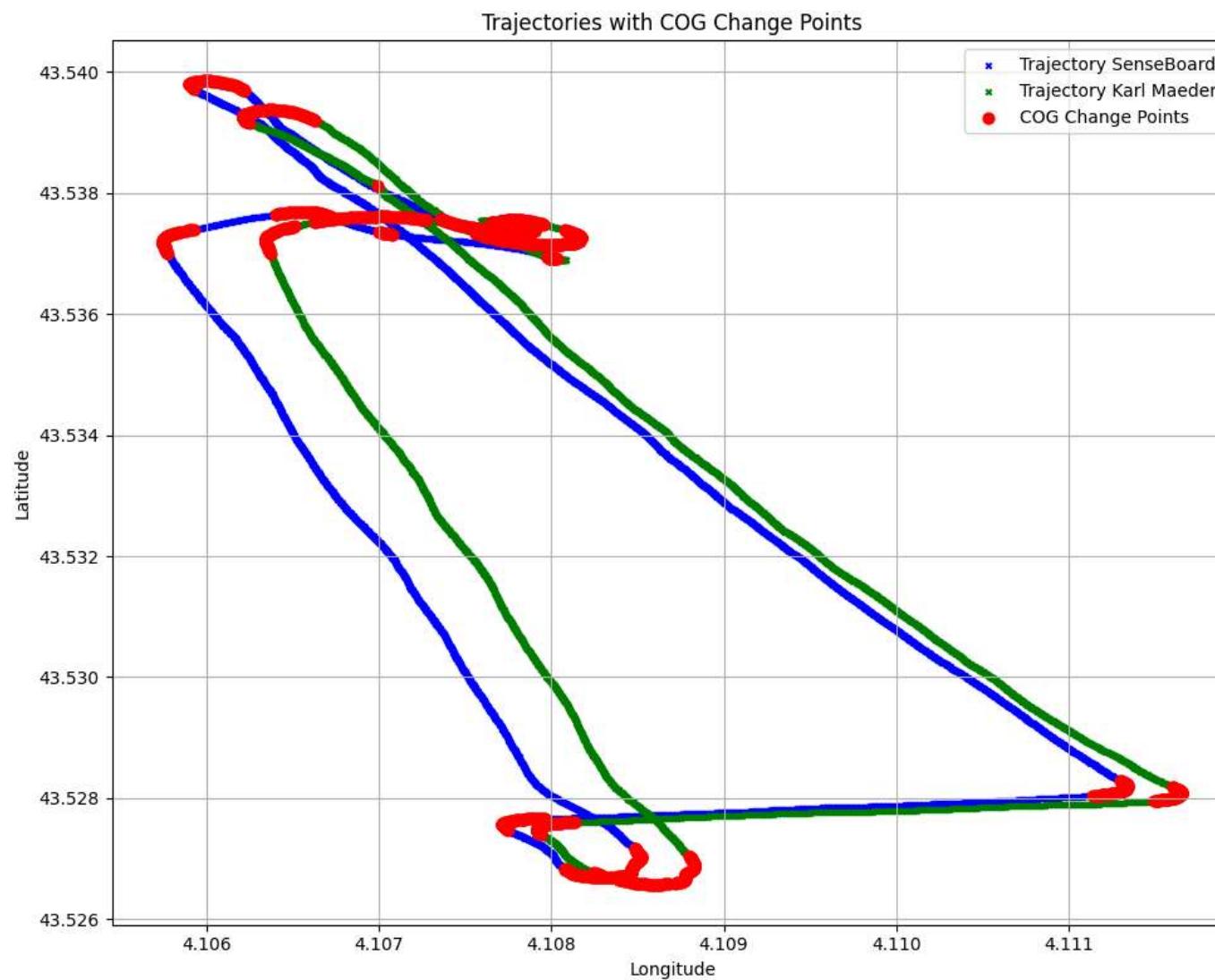


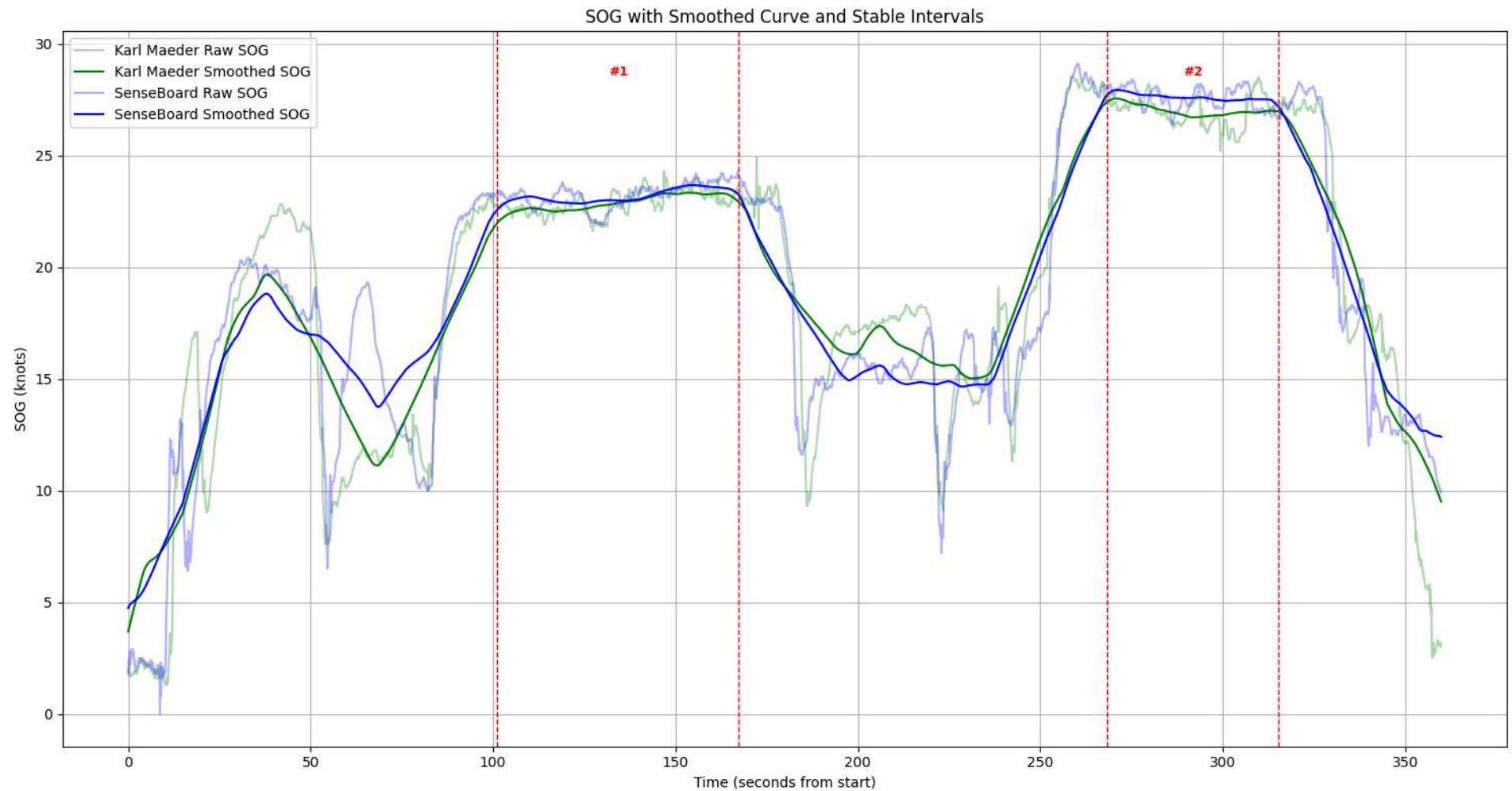
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\10_06\10_06_Run8



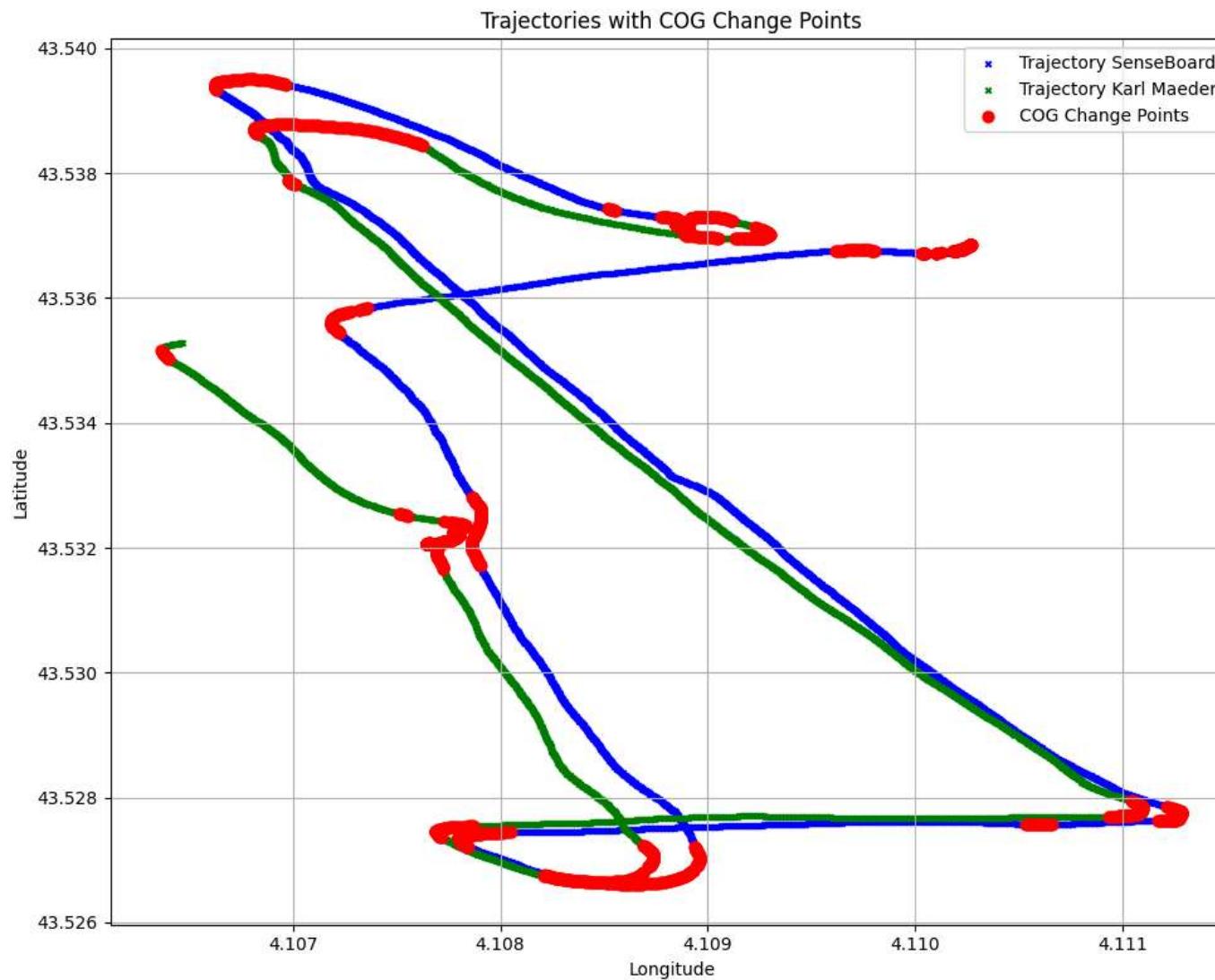


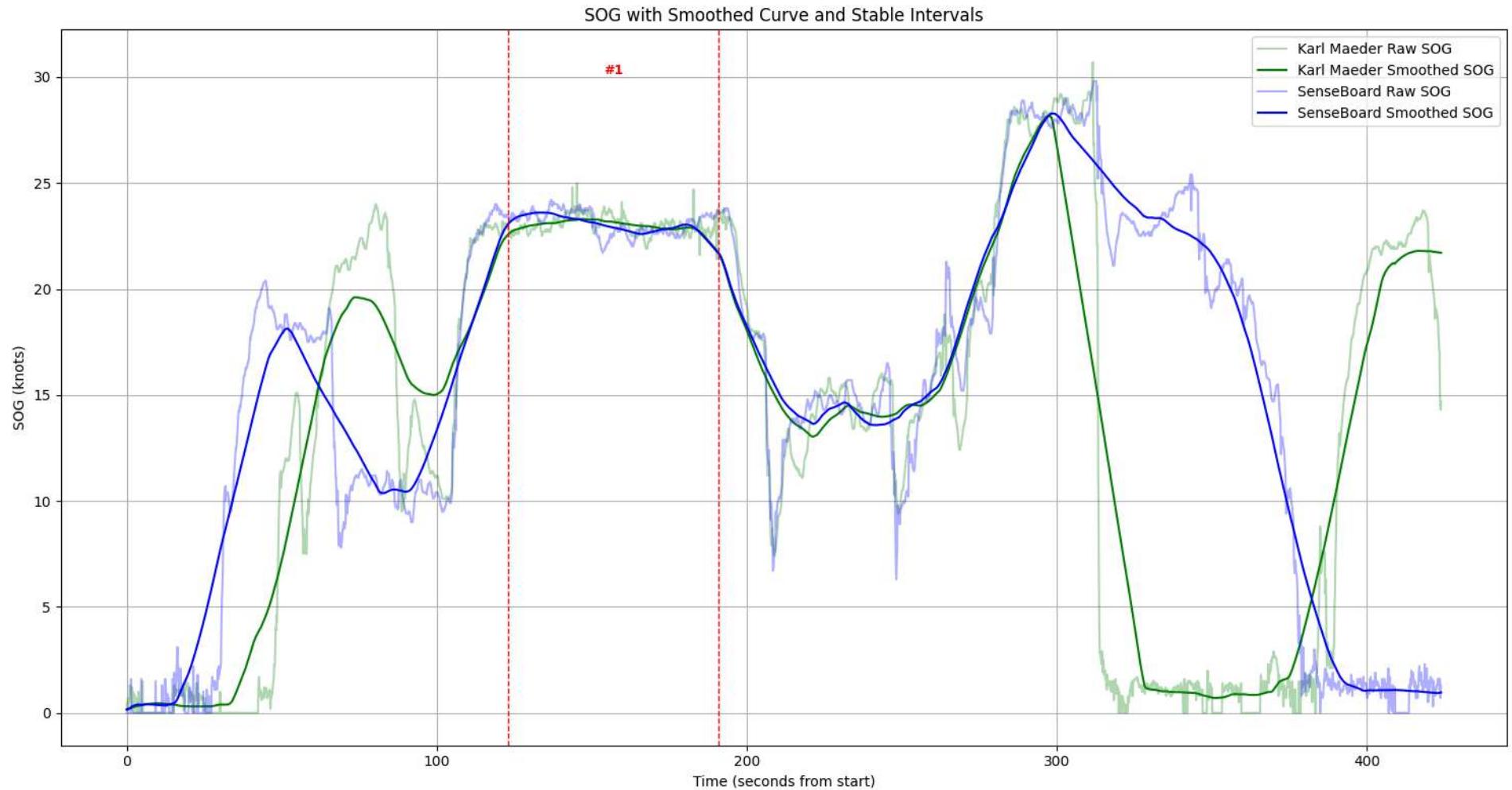
Analyse: Karl Maeder.csv et SenseBoard.csv dans ../Data_Sailnjord/Straight_lines\10_06\10_06_Run9





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





Ignoré: ../Data_Sailnjord/Straight_lines\10_06\Interview and equipment (attendu 2 CSV, trouvé 0)
 Ignoré: ../Data_Sailnjord/Straight_lines\10_06\senseboard_log (attendu 2 CSV, trouvé 0)
 Résumé complet sauvagardé (38 runs)

In [2]: `print(json.dumps(summary, indent=2))`

```
[
  {
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    "intervals": [
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        "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": -127.849458333333335,
        "avg TWA boat2": -123.79282664526484
      }
    ]
  },
  {
    "run": "06_06_Run2",
    "intervals": [
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        "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": 23.812500000000002
      }
    ]
  }
]
```

```

    "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": -122.11107220708448
  }
],
},
{
  "run": "06_06_Run3",
  "intervals": [
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      "duration": 82.69000005722046,
      "boat1_name": "Gian Stragiotti",
      "boat2_name": "Karl Maeder",
      "avg_SOG_boat1": 21.063164251207727,
      "avg_SOG_boat2": 20.359541062801927,
      "SOG_variation_boat1": 0.49000470059418433,
      "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
    }
  ]
}

```

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},
{
  "start_time": 1749219850.357,
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  "duration": 59.501999855041504,
  "boat1_name": "Gian Stragiotti",
  "boat2_name": "Karl Maeder",
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  "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": 81.19400000572205,
      "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": [
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      "start_time": 1749221351.961,
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      "duration": 71.2940001487732,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard"
    }
  ]
}
]
}

```

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"boat2_name": "SenseBoard",
"avg_SOG_boat1": 21.702941176470592,
"avg_SOG_boat2": 22.300560224089637,
"SOG_variation_boat1": 0.6024771486351213,
"SOG_variation_boat2": 0.5333213588461789,
"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,
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  "boat2_name": "SenseBoard",
  "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": [
    {
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      "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
    }
  ]
},
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{
  "run": "06_06_Run8",
  "intervals": [
    {
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      "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": 38.29299998283386,
      "boat1_name": "Karl Maeder",
      "boat2_name": "SenseBoard",
      "avg_SOG_boat1": 27.988020833333337,
      "avg_SOG_boat2": 28.154947916666668,
      "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": [
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        "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": 0.964700433949513,
    "avg TWA boat1": -143.7616779661017,
    "avg TWA boat2": -143.34568008474577
  },
],
},
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  "run": "07_06_Run2",
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      "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
    }
  ],
},
{
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  "intervals": [
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      "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
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  ],
}
]
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{
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  "boat2_name": "SenseBoard",
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  "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
},
],
},
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  "intervals": [
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      "end_time": 1749299256.957,
      "duration": 55.79699993133545,
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      "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": [
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      "start_time": 1749299757.058,
      "end_time": 1749299823.864,
      "duration": 66.80599999427795,
      "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
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    {
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      "duration": 45.187000036239624,
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      "boat2_name": "SenseBoard",
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      "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
    }
  ]
}
]
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    "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": [
    {
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      "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": 53.60065277777778,
      "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": [
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      "end_time": 1749301276.356,
      "duration": 67.80399990081787,
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      "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": 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,
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  "SOG_variation_boat1": 0.6994768334928197,
  "SOG_variation_boat2": 0.8057898398385431,
  "stability_score": 0.9490600930144912,
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      "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,
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      "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
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      "avg_SOG_boat2": 27.6625,
      "SOG_variation_boat1": 0.8091860497107752,
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      "stability_score": 0.9616375431561365,
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    }
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}
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}

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    "boat1_name": "Karl Maeder",
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    "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
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  {
    "start_time": 1749302396.448,
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    "avg_SOG_boat1": 28.447392290249432,
    "avg_SOG_boat2": 28.581179138321993,
    "SOG_variation_boat1": 0.6630842211928816,
    "SOG_variation_boat2": 0.7550342961025506,
    "stability_score": 0.9651754089517661,
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    "avg TWA boat2": -146.5883696145125
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      "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
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{
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      "boat2_name": "Karl Maeder",
      "avg_SOG_boat1": 22.93416149068323,
      "avg_SOG_boat2": 22.669875776397518,
      "SOG_variation_boat1": 0.48260786763356933,
      "SOG_variation_boat2": 0.466035827614264,
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    "stability_score": 0.9512635432915371,
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      "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,
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      "avg_SOG_boat1": 27.6213963963964,
      "avg_SOG_boat2": 28.11644144144144,
      "SOG_variation_boat1": 0.849627104813067,
      "SOG_variation_boat2": 0.5257048959698549,
      "stability_score": 0.9623474927915108,
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      "boat2_name": "SenseBoard",
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      "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": 48.7127398255814
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}
]
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        "avg TWA boat2": 48.23567103347889
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],
},
{
"run": "09_06_Run6",
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    "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
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{
    "start_time": 1749473314.961,
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    "boat2_name": "SenseBoard",
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    "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
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]
},
{
"run": "09_06_Run7",
"intervals": [
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    "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": 47.80012354651163
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{
    "start_time": 1749473793.36,
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        "SOG_variation_boat1": 0.3075979509419556,
        "SOG_variation_boat2": 0.4363757068660953,
        "stability_score": 0.9731867204076343,
        "avg TWA boat1": -142.399125,
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      "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
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    {
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      "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
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{
  "run": "09_06_Run9",
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      "avg_SOG_boat1": 22.307558139534883,
      "avg_SOG_boat2": 22.687063953488373,
      "SOG_variation_boat1": 0.5431600589134501,
      "SOG_variation_boat2": 0.6840614956417097,
    }
  ]
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    "stability_score": 0.9646825750124971,
    "avg TWA boat1": 41.60781976744186,
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  "avg_SOG_boat1": 26.241558441558443,
  "avg_SOG_boat2": 26.94601113172542,
  "SOG_variation_boat1": 1.0217059599533802,
  "SOG_variation_boat2": 0.9318197050401614,
  "stability_score": 0.9458172931147468,
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      "avg_SOG_boat2": 23.533442088091356,
      "SOG_variation_boat1": 0.4172626962395209,
      "SOG_variation_boat2": 0.4660087049211628,
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      "SOG_variation_boat2": 0.556149167909675,
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},
{
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    "avg_SOG_boat2": 22.65357142857143,
    "SOG_variation_boat1": 0.6936663946225158,
    "SOG_variation_boat2": 0.6433790136832493,
    "stability_score": 0.957127357613573,
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    "avg_SOG_boat1": 25.45749525616698,
    "avg_SOG_boat2": 25.68709677419355,
    "SOG_variation_boat1": 0.595943023245209,
    "SOG_variation_boat2": 1.301806479623148,
    "stability_score": 0.9622185408950876,
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            "duration": 73.30599999427795,
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            "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,
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            "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
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    ]
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        }
    ],
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{
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      "avg_SOG_boat2": 22.051125401929262,
      "SOG_variation_boat1": 0.7741700772777428,
      "SOG_variation_boat2": 0.6155188589560149,
      "stability_score": 0.9661567984326258,
      "avg TWA boat1": 52.30156270096463,
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      "avg_SOG_boat2": 25.106972477064218,
      "SOG_variation_boat1": 0.7194692927018169,
      "SOG_variation_boat2": 0.7702815382301164,
      "stability_score": 0.9627767974222723,
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      "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
    },
    {
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      "boat2_name": "SenseBoard"
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        "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
    },
],
},
{
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            "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
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        {
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            "boat2_name": "SenseBoard",
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            "SOG_variation_boat1": 0.253889716586543,
            "SOG_variation_boat2": 0.2897555698691407,
            "stability_score": 0.973918519280143,
            "avg TWA boat1": 55.89349328214971,
            "avg TWA boat2": 54.93533461538461
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    ],
},
{
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            "SOG_variation_boat1": 0.5005847480056898,
            "SOG_variation_boat2": 0.44646452469984443,
            "stability_score": 0.9663098809174583,
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}
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  "avg_SOG_boat2": 26.642797494780798,
  "SOG_variation_boat1": 0.661275652373244,
  "SOG_variation_boat2": 0.6862557608982934,
  "stability_score": 0.9616481492402572,
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  "avg TWA boat2": -138.84397703549064
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},
{
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      "SOG_variation_boat2": 0.4688635040032667,
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                "SOG_variation_boat2": 0.5455417348453856,
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In []: