

**Fig. 6.** Daily Track of Trip 3.

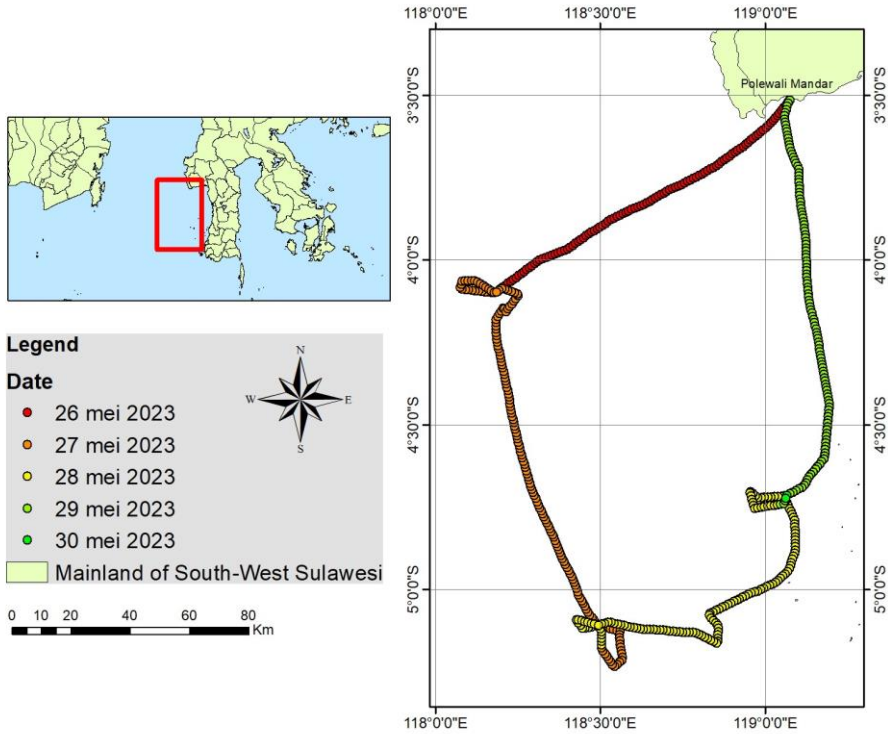
### 3.3.4 Track 4

Track 4 lasts for 5 days on 26 May 2023 - 30 May 2023 showing the route for catching flying fish eggs starting on the red route tracing outer waters, then heading to waters closer to the mainland of South Sulawesi and ending on the green route to Return to the fishing base in Pambusuang Village.

Fishing activities indicating the presence of flying fish eggs occurred at a wider point range, namely 118°04' E - 119°04' E and 4°03' S - 5°14' S. The presence of flying fish eggs is difficult to find so the search is carried out in a wider area, but in a shorter time. The search for flying fish eggs resulted in declining catches so that fishermen decided to stop fishing activities at the end of May 2023.

At the beginning of June 2023, there were still fishermen who tried to search for flying fish eggs but produced few catches and there were even fishermen who did not catch anything. The decline in fisheries production in several regions is caused by several factors, such as overexploitation, human population growth and climate change [21, 22, 23]. If not managed well, fishing pressure, climate change and other disturbances can threaten the sustainability of fish resources [23, 24]. Incompatibility between fisheries management and aquatic ecological processes can threaten the sustainability of fisheries resources and the lives of fishermen who are highly dependent on these resources [25, 26, 27]





**Fig. 7.** Daily Track of Trip 4.

## 4 Conclusion

The presence of flying fish eggs was detected in the waters of the mainland area of South Sulawesi at points ranging between 118°04' E - 119°19' E and 4°03' S - 5°14' S. At the end of May 2023, the presence of flying fish eggs was difficult to find, indicating a decline in flying fish egg production.

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