

Participant Information Sheet

- Research title:** Assessing the accuracy of tracklogs from diverse devices and platforms
- Lead researcher:** A/Prof Stefanie Becker, School of Psychology, The University of Queensland, Australia.
- Other researchers:** Mr Tim Bromhead (Developer of PureTrack), Pear Limited, New Zealand
- Research team contact:** Stefanie Becker, s.becker@psy.uq.edu.au and Tim Bromhead, tim@pear.co.nz
- Ethics approval number:** 2026/HE010853
- PIS version number** v0_01

Thank you for your interest in participating in this research project. Please read the following information about the project so that you can decide whether you would like to take part in this research. Please feel free to ask any questions you might have about your involvement in the project.

Participation in this research is voluntary. If you do not wish to take part, you do not have to. If you decide to take part and later change your mind, you are free to stop at any time, and you would not need to give any explanation for your decision to stop participating.

What is the purpose of this research?

This research project aims to compare the accuracy of different tracklogs during flights from different devices and platforms (transponders, skylines, FLARM, XCtrack) that pilots use to make themselves visible during flight. Tracklogs are already available live on different websites, including Tim Bromhead's Puretrack.io website. We would like to download tracklogs from different devices but the same pilot, to compare tracking accuracy. The results will show how accurate different tracking devices are and may inform the discussion of the planned transponder mandate for all aircraft.

What does participation involve?

If you decide to take part in this research, you will be asked to sign an electronic consent form and a brief questionnaire asking for your demographic data, registration data of your aircraft and the tracking devices you use, under [this link](#). With your consent, we would download tracklogs that are eligible for this research (i.e., of sufficient length) and analyse them to compare the accuracy of diverse tracking devices. The results of this research will be published in aggregate form at conferences, workshops and as articles in journals. If the journal asks us to make individual flight log data available to the public, we will de-identify your tracklog data so that they cannot be linked to any individual pilot.

Your decision whether you take part, or not to take part, or to take part and then withdraw, will not affect your relationship with The University of Queensland or Pear Design Ltd.

What are the possible benefits of taking part?

There are no direct benefits to the participants from participating in this research project.

Knowledge gained in this research project will hopefully contribute to making flying safer, by informing providers of the accuracy of their tracking devices and platforms. If we find that some trackers that are already widely used (e.g., skylines) are accurate, the findings may allow collision avoidance systems based on current trackers and prevent a transponder mandate. However, these potential benefits cannot be guaranteed.

What are the possible risks and disadvantages of taking part?

There are no foreseeable risks or disadvantages of participating in this research project. You will not be asked to do anything: If you consent to participate in this research, we will extract your tracklog data from puretrack.io, analyse them, and if possible, publish the results in aggregate/anonymous fashion.

What will happen to the information about me?

Tracklogs will be stored on secure repositories of The University of Queensland and retained for a minimum of 5 years (for details, see UQ's [Research Data Management Policy](#)).

Any information obtained in connection with this research project that can identify you will remain confidential. It is anticipated that the results of this research project will be published and/or presented in a variety of forums. In any publication and/or presentation, information will be provided in anonymous fashion, so that you cannot be identified.

If you consent to participate in this project, your de-identified, anonymous tracklog data may be made available to other researchers and the public and may be used in future research projects unrelated to this project.

Any information obtained during research projects may be subject to inspection (for the purpose of verifying the procedures and the data) by the relevant authorities and authorised representatives of The University of Queensland, or as required by law. Designated University individuals (data stewards or custodians) may also have access to the information for the purposes of ensuring long term retention and disposal. By signing the Consent Form, you authorise release of, or access to, this confidential information to the relevant research personnel and authorities as noted above.

Personal Information

The personal information collected for this research project only includes your name, your aircraft registration number (if applicable), the tracking devices you are using, and nick names you may be using on tracking platforms like skylines, XTrack or with certain devices like SkyEcho 2. Your personal information will be stored together with your code number in a separate file that is only accessible to the research team and authorised UQ staff, so that we can remove your data from the study if you decide to withdraw at a later date.

Withdrawal is only possible before your flight log data have been processed or published, so if you are thinking of withdrawing your data at any point in time, please let us know as early as possible.

You have the right to request access to the personal information about you that is collected and stored by the research team. If you are seeking to update or correct any information, please contact the project leader in the first instance (Stefanie Becker, s.becker@psy.uq.edu.au).

You are also able to request amendment via a University of Queensland Right to Information and Privacy officer (rti@uq.edu.au). For further information regarding the management of your personal information, please refer to UQ's [Research Data Management Policy](#), [Privacy Management Policy](#) and [Privacy Management Procedure](#).

What will happen if I decide to withdraw?

Your participation in this research is voluntary and you are free to withdraw without needing to provide an explanation. If you would like to withdraw from this study, please contact the project lead Stefanie Becker (s.becker@psy.uq.edu.au) and clearly state your name. If you decide to withdraw, the research team will remove your data from the study.

Can I hear about the results of this research?

Research studies typically take a long time to complete, so we do not expect to see any results before the end of the year. However, if you would like to get a short summary of the findings, please tick the relevant box in the consent form. Also, please feel free to contact Dr Stefanie Becker (s.becker@psy.uq.edu.au) at any point if you are curious to hear about the results of this research. If the results are interesting, we may also publish them on puretrack.io.

Who can I contact if I have any concerns about the project?

Questions about the nature of this project and your participation in it should be directed to the project lead Dr Stefanie Becker (s.becker@psy.uq.edu.au).

This study adheres to the principles of the National Statement on Ethical Conduct in Human Research. The study has received ethics approval in accordance with the review processes of The University of Queensland. You are free to discuss concerns regarding this study or your participation in it with the research team, but if you would like to speak to an officer of the University not involved in the study, you may contact the Human Research Ethics Team via email humanethics@research.uq.edu.au or phone (see contact details at: <https://research-support.uq.edu.au/research-support/ethics-integrity-compliance/contacts>).

Declaration of Interest Statement

One of the researchers involved in this study may receive payment for their work, up to a maximum of \$600. This compensation is for the extraction of the data only. The individual receiving payment will not be involved in decisions regarding data selection, analysis, or interpretation, so that the integrity and independence of the research will be maintained at all times.