

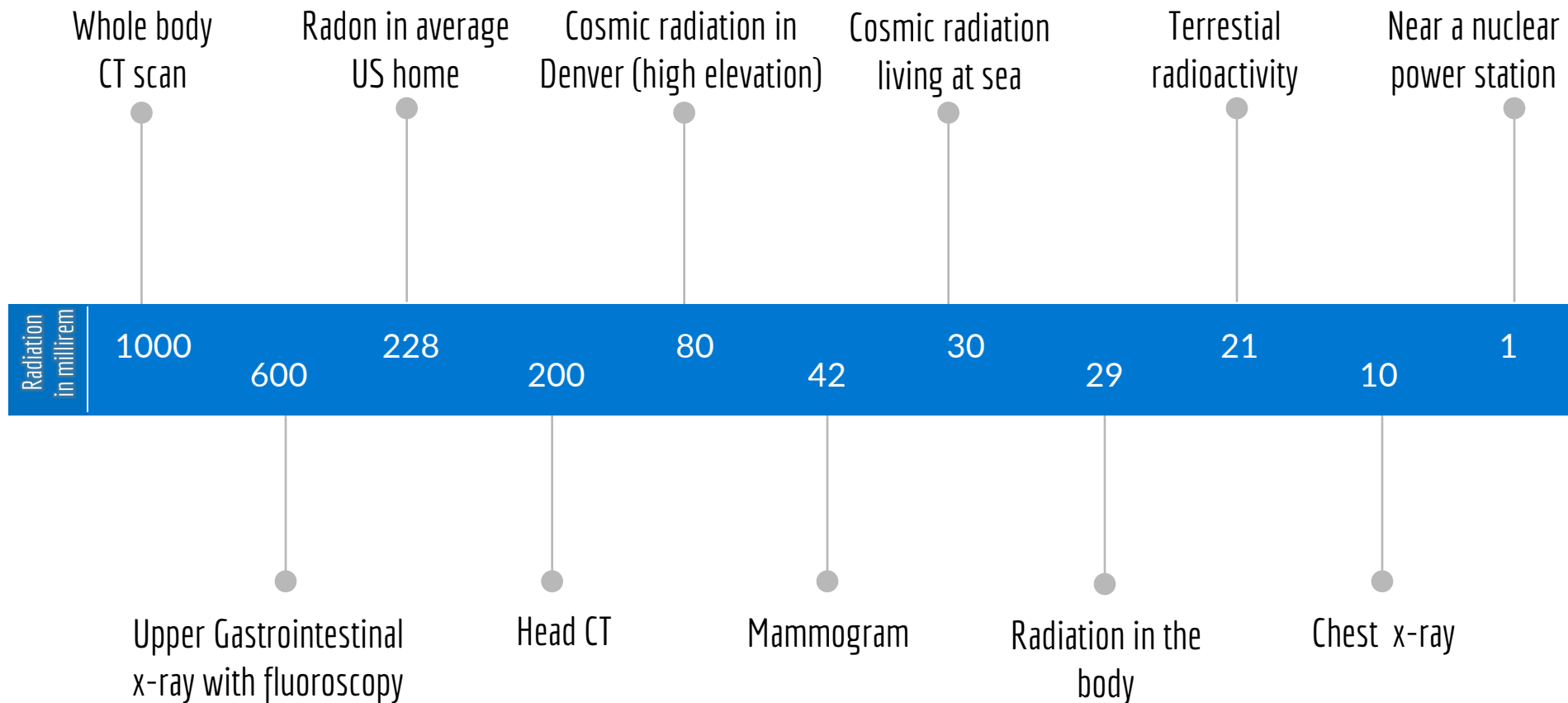
# FLEIGER

Fly Smarter, Fly Safer

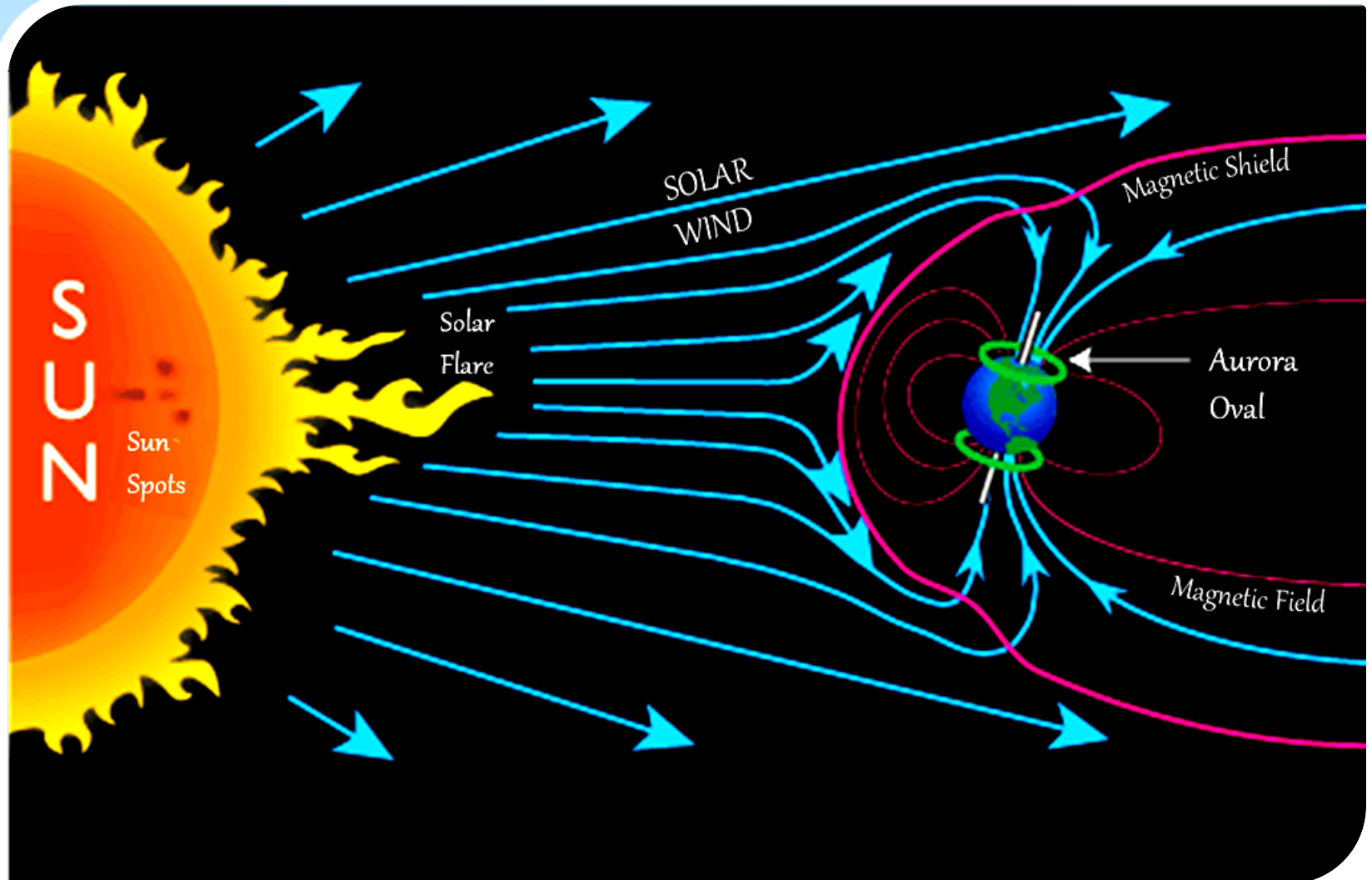


# Radioactive Doses From Radiation Sources

All doses from the National Council on Radiation Protection and Measurements, Report no. 160



# The Magnetosphere



Source: [www.aurora-service.eu/aurora-school/aurora-borealis/](http://www.aurora-service.eu/aurora-school/aurora-borealis/)

# The Problem

- Risk of radiations at higher altitudes during long distance and polar/near-polar flights
- Excessive radiation exposure results in:
  - Radiation Sickness
  - Increased risk of genetic abnormalities in foetuses
  - Higher risk of cancer

# Existing Tools

- Online free radiation rate calculators:
  - Complicated parameters
  - Time based data not easily available
  - Contain Airport -> Airport data
- EPCARD (German) , PCAire (Canadian), CARI (FAA):
  - Not user friendly
  - Terminal based
  - Target commercial airlines and not an average consumer

# Why Fleiger?

- One stop spot for aviation radiation exposure data.
- Real time data modelling and updates.
- Users prefer interactive interfaces for obtaining information.

# Future opportunities

- With the NAIRAS database we can:
  - Model Solar flares, Solar winds, etc.
  - Stream continuous information
- Filter flight paths : Radiation as parameter
- Flight rerouting and optimization : Radiation anomalies

# Potential Business Model

## Free App Release

- Health Conscious Public
- Awareness Development

## Commercial Airlines

- Customize Interface
- Add features

## Data

- Anonymized consumer data available to public
- Additional deliverable





*THANK YOU*