



VICTORIA FLYING CLUB

## Contact Information

- Instructor: Stephan Heinemann
- SMS: +1 (250) 891-5446
- Email: [stephanheinemann@flyvfc.com](mailto:stephanheinemann@flyvfc.com)
- Bookings, Questions



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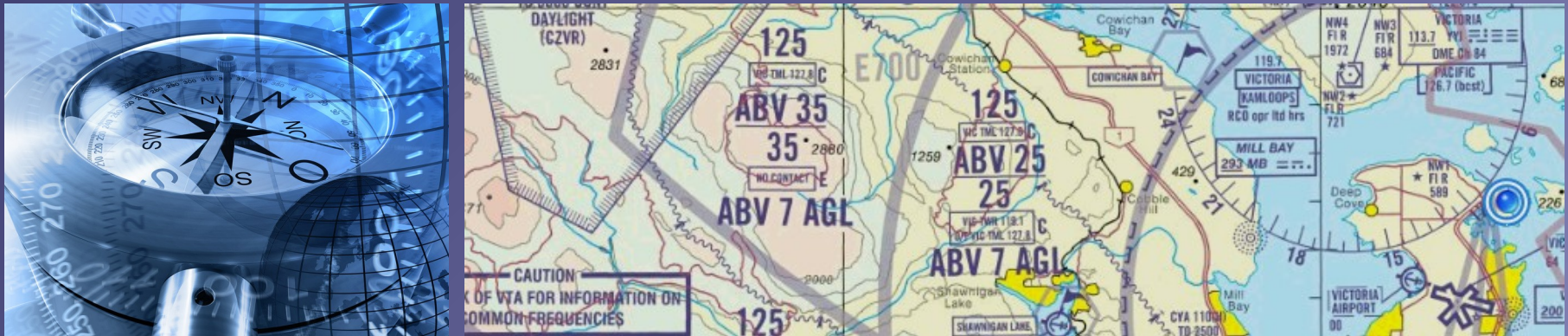
# Pilot Navigation

- Definition and Motivation
- **Pilot Navigation** (Diversions)



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# Definition and Motivation



- *The process or activity of accurately ascertaining one's position and planning while following a route.*
- **Essential skill** to safely and efficiently travel from departure to destination
- Navigation **planning** establishes a level of **situational awareness** including potential options *before the flight*
- Supports **decision making** *during the flight*



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# Diversions



- *Circle, Circle, Line, Heading, Distance, Time (Fuel)*
- *Make a call and you'll be fine*
- **Fuel** (reserve) required and **weather** for alternate
- Consider **departure aerodrome** and **reciprocal track**
- Use physical features for **visual navigation** (roads, rivers)
- Support with **all means of navigation** (GPS, VOR, NDB)





The map shows the following details:

- Airports:** ABV 55 (Crofton), ABV 7 AGI (Duncan), ABV 35 (Victoria), ABV 25 (Mill Bay).
- Navigational Aids:** Various VORTAC stations like 125, 35, 25, and 7.
- Terrain:** Elevation contours and peaks such as Mount Belcher (1000 ft) and Mount Vancouver (148 ft).
- Water Bodies:** Cowichan Bay, Salt Spring Island, and the Strait of Juan de Fuca.
- Infrastructure:** Roads, railways, and the Ganges River.





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# Diversions





# E6B GS Check and ETA Update

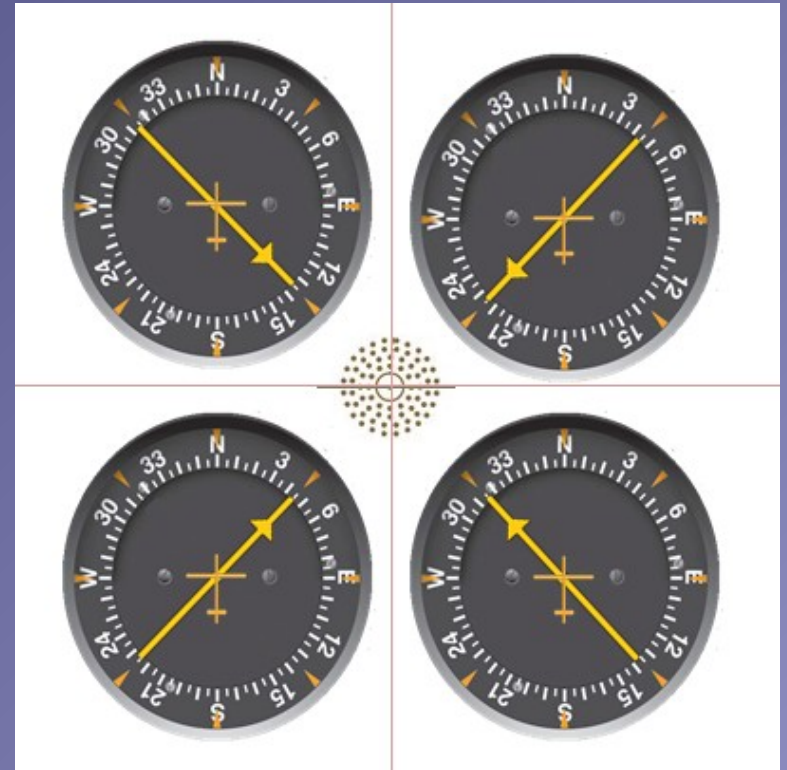
- GS Check:
  - **Distance** in **NM** on the outside ring **over**
  - **Time** in **min/hours** on the inside ring
  - Read **Speed** in **knots** on the outside ring **over** 60
- ETA / ETO Update:
  - **Speed** in **knots** on the outside ring **over** 60
  - Read **Time** in **min/hours** on the inside ring **under**
  - **Distance** in **NM** on the outside ring





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# Navigational Aids



- GPS – map and direct to (mounted, portable)
- VOR – radial inbound or outbound, fix
- NDB – bearing to station





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# Low-Level Navigation



- *Restricted field of view* and *limited navigational cues*
- Requires *accurate tracking* and *timing*
- Remain clear of **obstacles** – look outside
- Use **shorelines**, **rivers**, **roads**, **railways**
- Consider **precautionary landing** or **special VFR**