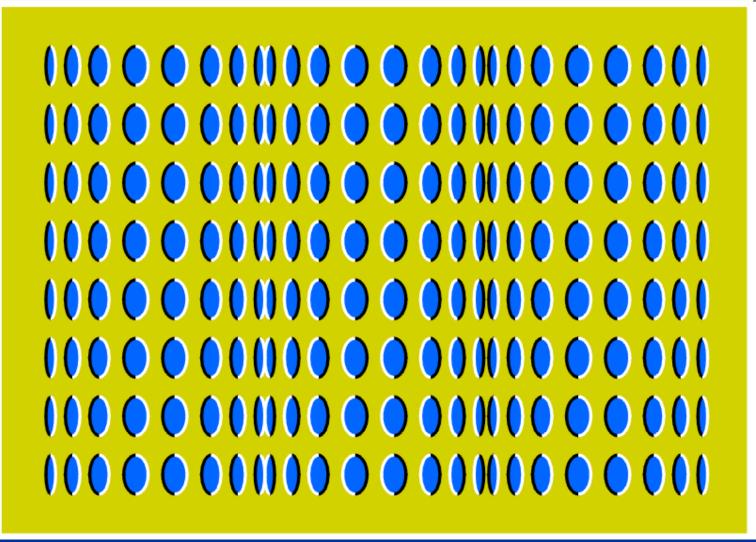
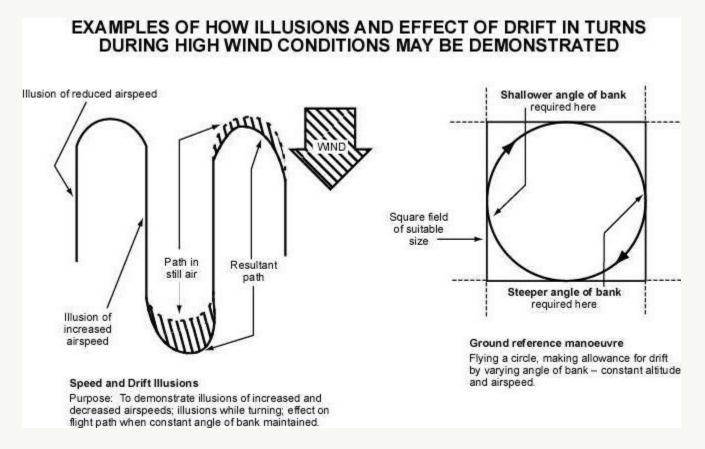
Ex. 20 – Illusions Created by Drift

Things aren't always as they seem to be...



What you will learn:

Illusions produced by drift at low altitudes and how to counteract them.

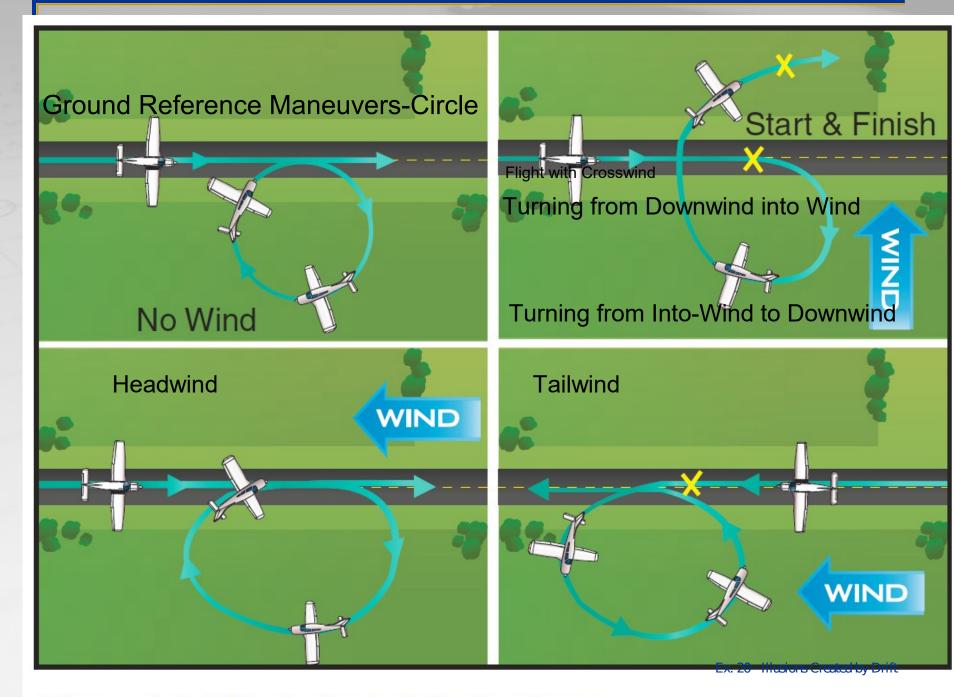


Why learn this:

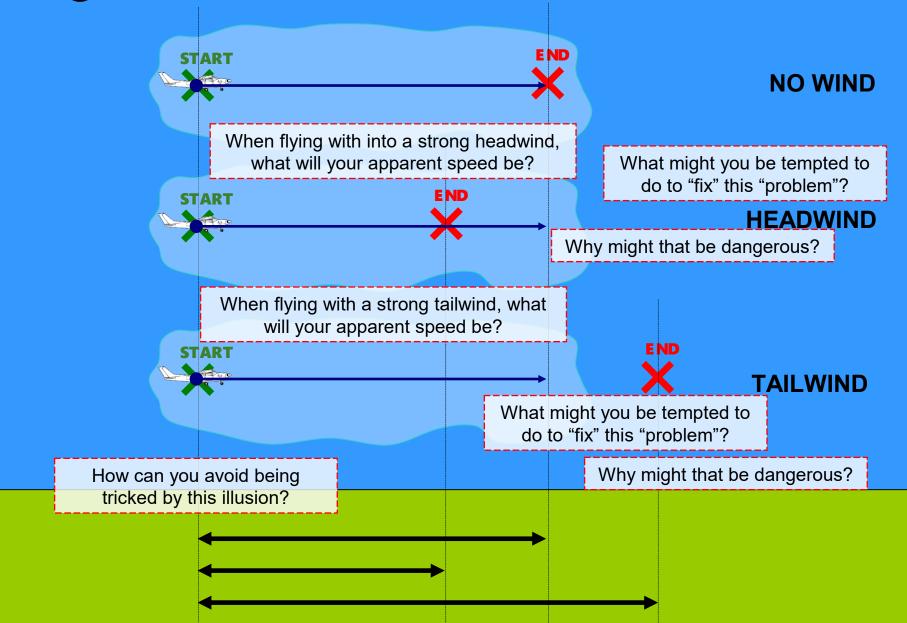
- Our brains, eyes and ears are not used to operating in "flight mode"
- ✓ Pilots are subject to many illusions and must be aware of them
- Thinking an illusion is real and acting accordingly may be dangerous!
- Illusions are worst when Winds are high and we are low and slow.

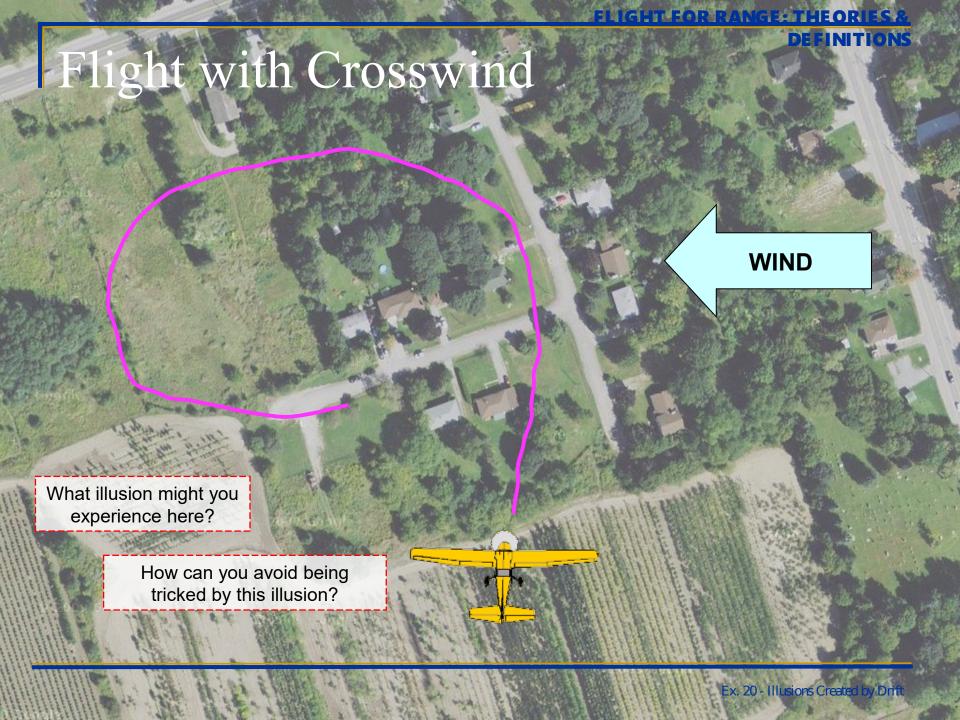
Links:

- You understand the difference between airspeed and ground speed
- You understand the difference between slips, skids and coordinated flight
- You can interpret instruments to accurately check your airspeed and turn coordination.



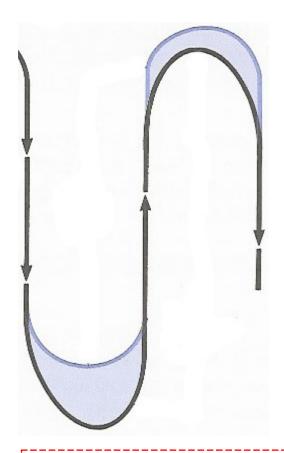
Flight into Wind/Downwind



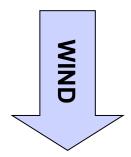




Turning Downwind/Into Wind



Sketch the plane's track given the winds



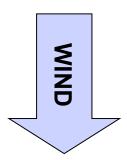
What illusions will you experience when turning downwind? Into wind?

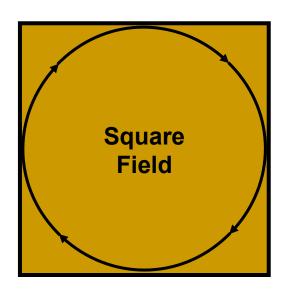
What might you be tempted to do to "fix" this "problem"?

Why might that be dangerous?

How can you avoid being tricked by these turning illusion?

| Flying a Circle





How must the angle of bank be varied to obtain a circular track?

SAFETY

When flying close to the ground, especially in strong winds:

- Look well ahead
- ! Avoid breaking regulations, flying over noise-sensitive areas, disturbing livestock or wild animals
- Maintain safe airspeed (periodic checks of AI)
- Maintain coordinated flight (periodic checks of TC)
- ! Keep a good lookout
- Avoid steep turns.

Conclusion

✓ This is an introduction to one of many types of illusions that pilots may experience

Knowing when to expect illusions and how to maintain accurate coordinated flight despite them is critical for safety

QUESTIONS?