

### Compass

doesn't like to move away from N - sticks at N wants to accelerate to N : faster = ahead N, slower = stick on S



**Correct** only straight-level, unaccelerated

**OSUN** (pilot) <u>Overshut South</u> <u>Undershut North</u>

> TN vs. MN isogonic lines Variation East is Least West is Best + where is MN pole? SNA:  $-12^{\circ}$  E Chicago:  $0^{\circ}$

Florida: +6° W

**Deviation** distorting by magnetic fields in aircraft

### taxi flight controls

HW: not creating lift on upwind wing TW: not blowing under upwind wing



## Spin recovery

- Power reduce
- ileron **neutral** A
- udder top yaw R
- levator **push** & level out E

# **Engine instruments**

- oil P ressure oil T emperature **RPM**
- MGT anifold pressure (performance, **fix RPM prop**.)

en

ersonal

ironment

xternal pressures

ircraft

- **EGT** (exhaust gauge temp.)
- **CHT** (cylinder head temp.)

#### **Unusual attitude** exact, do in steps! AS high under Horizon

#### nose low

- P ower -> IDLE
- L evel wings -> AILERON 🔨
- N ose up
- C cruise back

AS low over Horizon

#### nose high

- P ower -> FULL
- N nose comes down / push
- L evel wings -> AILERON
  - C cruise back

## **Decision Making**

I M S A F E	illnes medication stress alcohol atige eating / emotional
DECIDE	etect stimate severity hoose something to do nspect the options o it valuate (the success)

## **Equipment (VFR day)**

### A nti collission

- T acho (RPM)
- **oil Temp.** (air-cooled)
- M anifold press. (ALT enginge)
- A irspeed ind.
- **T** emp. sensor (liquid cooled engine)
- **O** il Pressure
- F uel (each tank gauges)
   L anding gear position ind.
- A Itimeter
- M agnetic compass
- E LT
- S avetiy (seat) belts, shoulder harness

- 3 places:
- AIM 91.205
- POH 2.12 kinds of operation
- Type Certificate DataSheet (TCDS) -> EASA.A.592

WWW.easa.org ULL-07/2003, 15.10.2005

> **AIM:** 91.205 91.213

### Turns

Turn-1 or SRT: 3° / second

approx. **15°BA** 

TR [nm] = TAS / 200 or: TR [nm] = ( TAS \* 0.01 ) / 2

<u>Rate Of Turn:</u> **ROT = ( 1.091 \* tan ( BA ) ) / AS** [knt]



tan [*d*eg°]

 10
 15
 20
 25
 26.5
 30
 35
 40
 45
 50
 55
 60

 0.18
 0.27
 0.36
 0.47
 0.5
 0.58
 0.70
 0.84
 1
 1.19
 1.43
 1.73

