



SOARING SOUTHERN SKIES GLIDING IN AUSTRALIA

Drew McKinnie

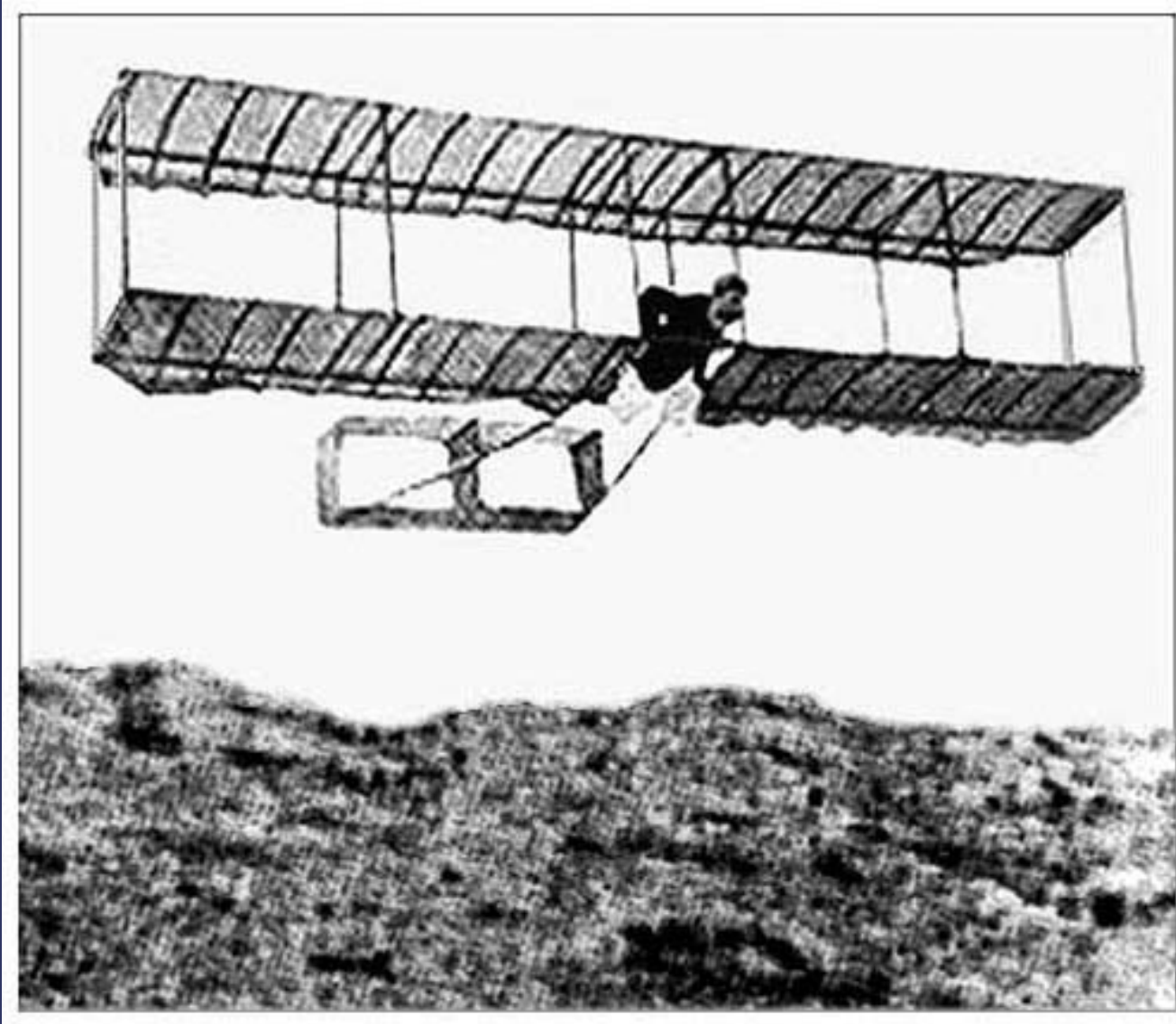
Chairman of Operations Panel
The Gliding Federation of Australia

&

Instructor, Canberra Gliding Club, Bunyan NSW







GEORGE TAYLOR, NARRABEEN, 5/12/1909

GLIDING ***THE SPORT OF SOARING***



BRUCE TAYLOR, LAKE KEEPIT, MARCH 2011



SAILPLANE FAST FINISH, DUMPING WATER BALLAST



DIMONA TOURING MOTOR GLIDER, CAMDEN



RAAF AAFC ASK21MI SELF LAUNCHING GLIDER



RAAF AAFC DG1000S TRAINING GLIDER



AEROTOW LAUNCH & FORMATION FLYING



WINCH LAUNCHING – TIME LAPSE



WHY DO WE DO IT?



WHY DO WE DO IT?



WHY DO WE DO IT?



WHY DO WE DO IT?



WHY DO WE DO IT?



PERLAN PROJECT – STRATOSPHERIC WAVE

Perlan 2 by the numbers

Engines = **0**
Crew = **2**
Cabin Pressure = **8.5** PSID
Wing Span = **84** FT
Wing Area = **263** SQ FT
Empty Weight = **1,265** LBS
Gross Weight = **1,800** LBS

AIRBUS
PERLAN
MISSION II

SOARING INTO THE FUTURE

5,000 FT

Altitude at which Perlan 2 will be released for First Flight

90,000 FT

Altitude at which Perlan 2 will soar in 2016 to break world record

Small footprint. HUGE potential.

- Commercial Airliner
35,000 ft
- U-2 Spy Plane
72,000 ft
- SR-71 Blackbird
85,069 ft
(current world record)

Perlan 2
90,000 ft

Flying to the edge of space...
without an engine

Taking research to
new heights

GOALS

Aeronautical
Exploration

Aerodynamic
Advancement

Meteorological
Research

Studying
Climate
Change

Studying
Ozone
Depletion

Advancing
Education

OUTCOMES

PERLAN PROJECT – STRATOSPHERIC WAVE



WINGLETS



THE WALL STREET JOURNAL.

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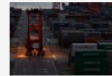
Comcast in Talks to Buy DreamWorks Animation Studio



Apple Posts First Quarterly Sales Drop Since 2003



FTC Extends Probe Into Google's Android



Once Bustling Trade Ports Lose Momentum



BUSINESS

Airlines Put Pilots in a Real Spin in New Training Initiative

Delta, SAA among airlines worried about erosion of manual-flying skills



STALL & SPIN AVOIDANCE AND RECOVERY



ASW20 SOARING NEAR TCU, BUNYAN, DEC 2015



THANK YOU, AND HAPPY LANDINGS



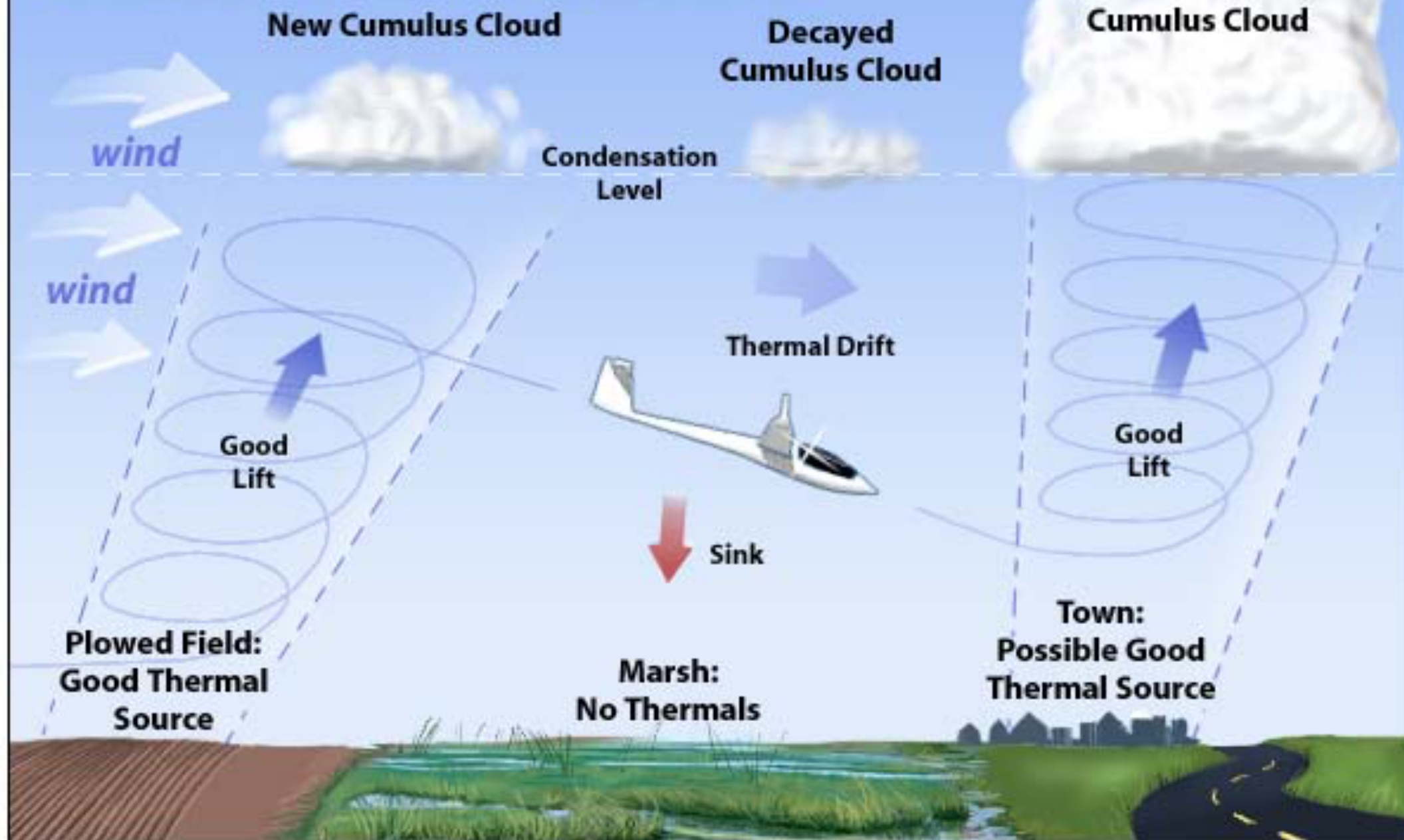


RIDGE SOARING





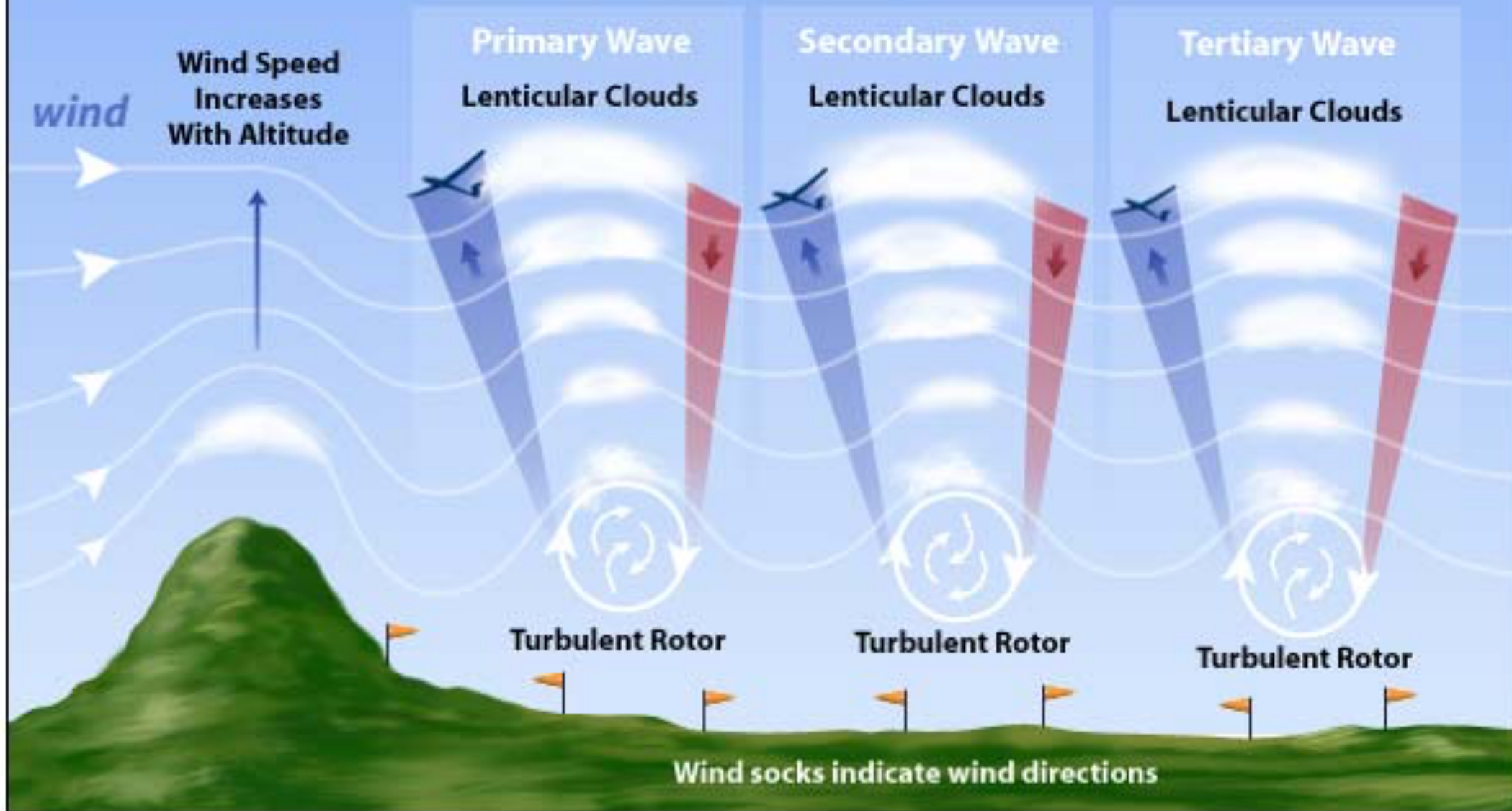
CROSS-COUNTRY SOARING





MOUNTAIN WAVE SOARING

■ Areas of Lift ■ Areas of Sink





Gliders, sail planes, they're wonderful flying machines. It's the closest you can come to being a bird.

(Neil Armstrong)

izquotes.com