

HELP FOR TRAINERS AND PILOTS

F1-Vertical hourglass

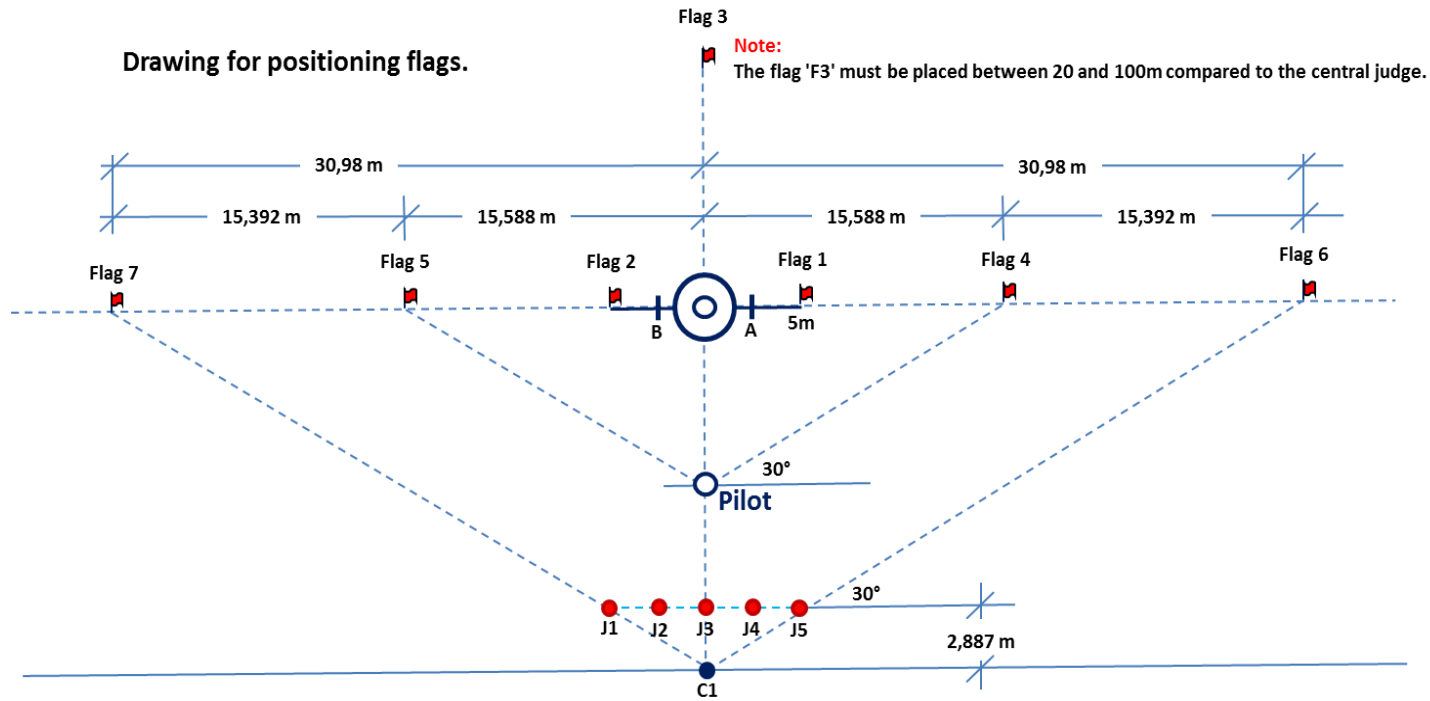
By Roger Lacôme



Before I begin the comments on the figures of the "SF and F" program, I would like to give a reminder concerning the preparation of the terrain and the knowledge of the figures.

- All markers and / or flags must be in place (see the preamble document).

A little reminder about the tracing of the evolution area will not hurt!



Note 1: The flags (or cones) F4 and F5 serve as references for the 120° frame of the pilots.

Note 2: The flags (or cones) F6 and F7 serve as references for the 120° frame of the judges.

- It is imperative that both the pilot and the trainer read the description of each figure and the point-by-point analysis as well as appendix 5D.1 General and appendix 5E including 5E.6.1. to 5E.8.
- The presence of a trainer is necessary to progress, but of course, he does not need to be there for each training.

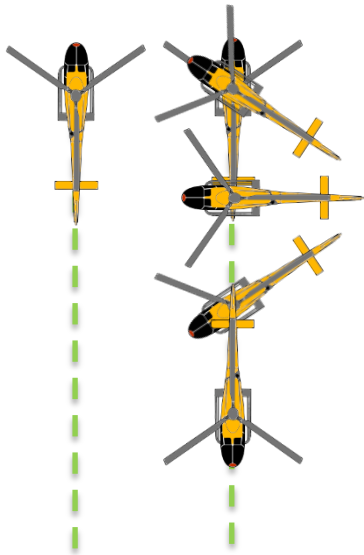
As with the stationary figures of the program "P", it is preferable to have a relatively slow speed of translation rather than fast because there also in this stationary figure program there are double pirouettes of 180° with change of direction of rotation! But of course, everyone is free to do as they want according to their riding style.

A little reminder concerning the difference between a tail-turn and stall-turn.

Aside from the fact that the two must be around the main rotor axis, a **360°** rotation (Tail-turn) must be performed symmetrically with respect to the end of the ascent, half during the end of the ascent, half during the descent.

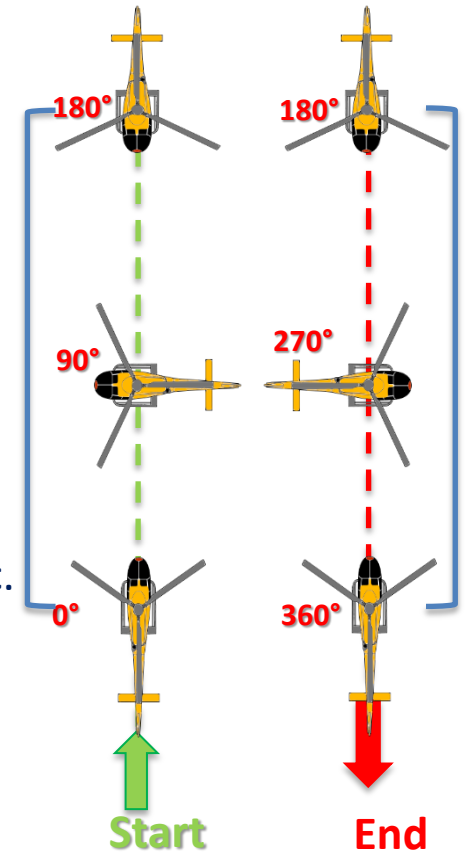
In this case, the helicopter must rotate **180°** during the end of the ascent and **180°** during the descent. (see Annex 5E in: 5E.6.8.)

Note: According to the description, this rotation can be 90° / 540° etc.



For a **180°** reversal (Stall-turn), after stopping the ascent

the helicopter must rotate **180°** during the descent.



F1 Vertical hourglass with pirouettes 90°180° (UU)

Wind

ATTENTION



90° Right



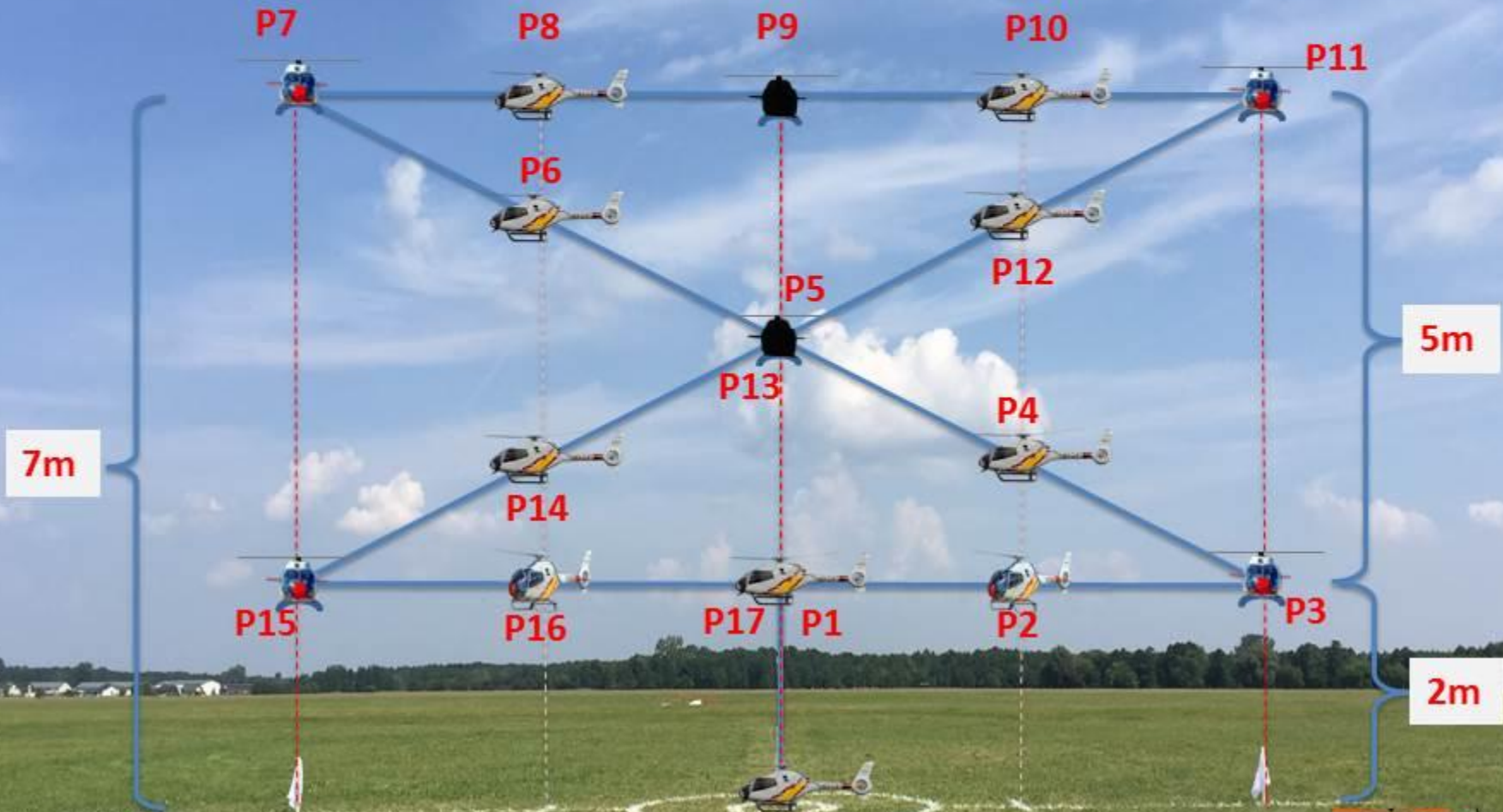
In any Direction



In opposite Direction

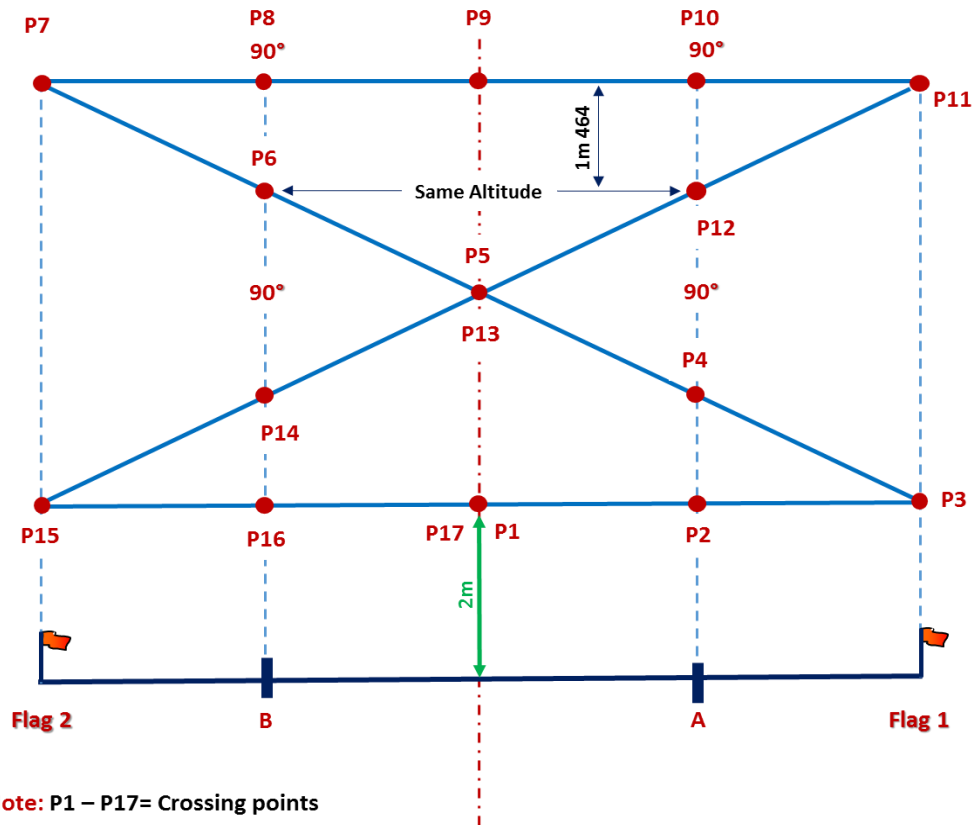


90° Left



Note: The change of the pirouettes direction must be done smoothly on the center line.

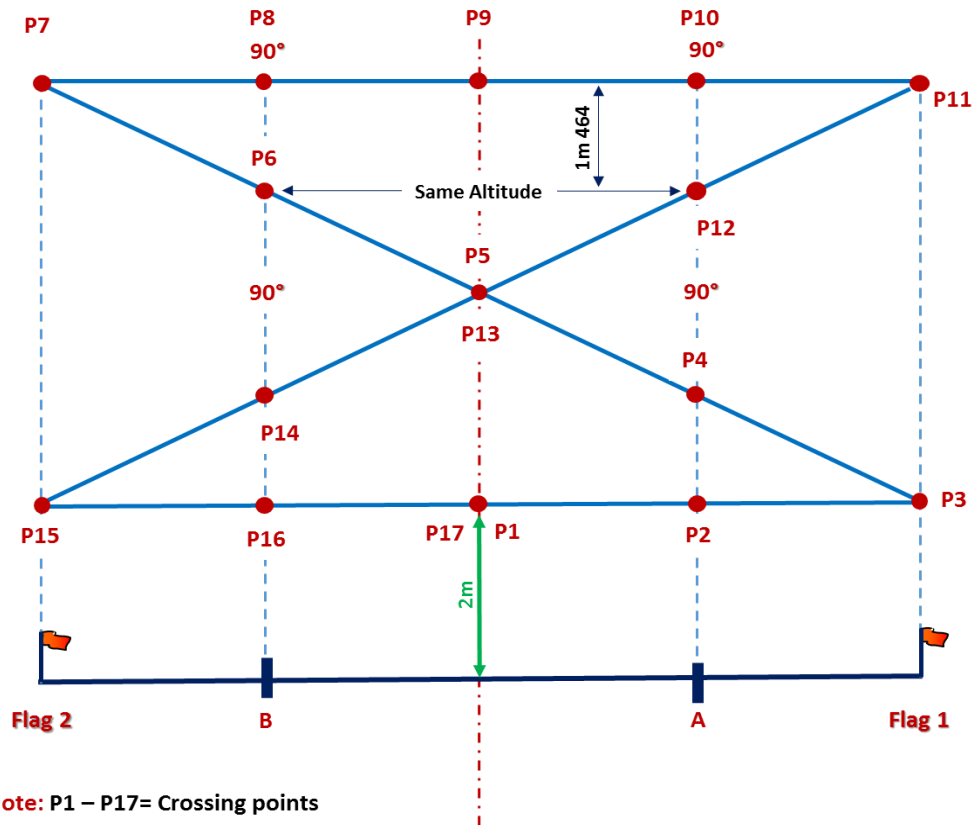
F1 Vertical hourglass with pirouettes 90°180° (UU)



The trainer can position himself directly at the location of judge 4, this will allow him to check if the ascent to **2m** is correct and he will be in the right location to check if the axis of the helicopter is at **45°** at the point of passage (**P2**).

Then he must move to the location of judge 5 to check if the stop is vertical to the **F1** flag and also to check that the axis of the helicopter is at **90°**, still relative to the plane of flight.

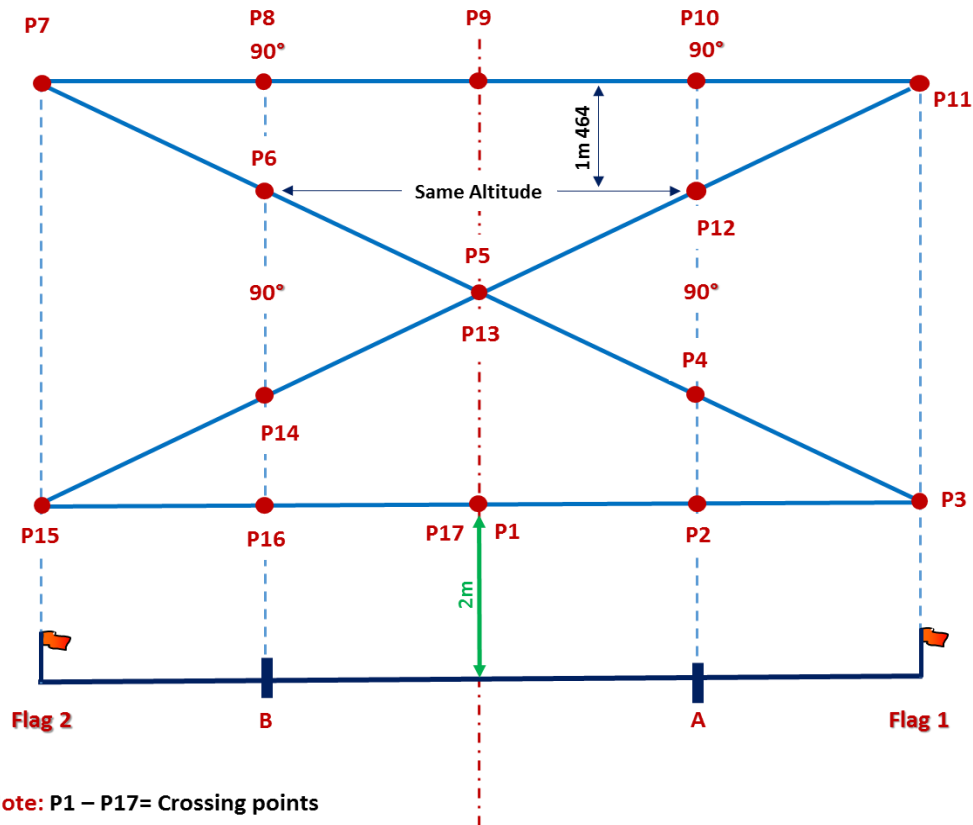
F1 Vertical hourglass with pirouettes 90°180° (UU)



We leave with the horizontal translation with the two **180°** pirouettes:

- Vertical mark **"B"** (P8), helix superimposed on the central line.
- Vertical center line (P9), same comments as (P5).
- Vertical mark **"A"** (P10), same comments as (P4).
- Vertical **F1** flag (P11), same comments as for the waypoint (P7) **F2** flag.
- And of course, all this on a horizontal rectilinear trajectory.

F1 Vertical hourglass with pirouettes 90°180° (UU)



We continue with the descent and the two pirouettes inverted by **180°**, same comments as during the ascent, checking at the end of the descent the same points when **F1 (P3)**.

All that remains is the horizontal translation with a **90°** pirouette in the opposite direction to that at the start, the helicopter having to be at **45°** when it is vertical to the **"B"** mark.

Of course, one should not overlook the fact that you need a regular rate of descent!

