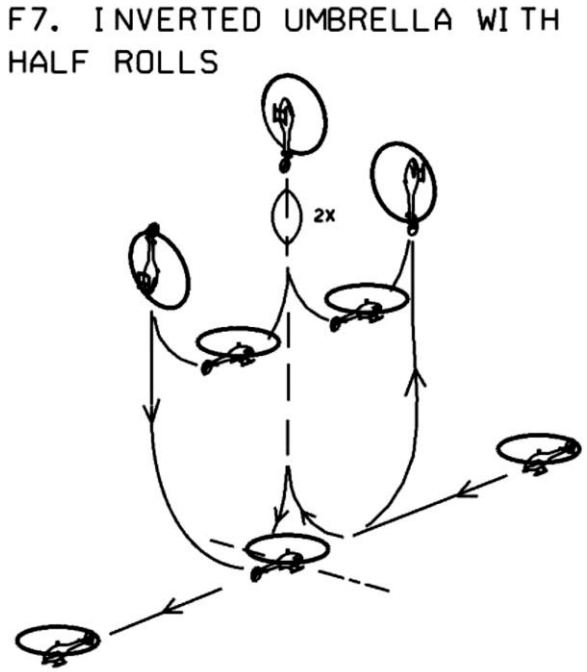
FAI

CIAM F3 Helicopter Sub-committee

"F" Program 2026/2027 Presentation of the figure: F7 Inverted Umbrella with half rolls (UU)

Presentation Created by Roger Lacôme and Eladi Lozano



F7: Inverted Umbrella with half Rolls (UU **K=1.0**

MA flies straight and level for a minimum of 10 m and pulls up into a vertical ascent on center line. After a nose up stop MA performs immediately in a backward vertically flight a half roll in any direction followed by a half backward loop. After MA stops it performs a centered ‘U’. After a nose up stop MA performs a half backward loop followed by a backwards vertically ascent. After a nose down stop MA performs immediately in a forward vertically flight a half roll in any direction followed by a vertical descent. MA pulls with a quarter looping into horizontal straight and level flight for a minimum of 10 m at the same altitude as when entering the figure.

Note 1: The quarter loops at the entrance and the exit of the figure and the half loop of the centered ‘U’ must have the same radius.

Note 2: The two half backward loops must be of equal size and must have half radius than the half loop of the centered ‘U’.

Note 3: The bottom of the ‘U’ must be at the same altitude as when entering the figure.

Note 4: The two rolls must be performed at the same altitude.

Note 5: The 2 half rolls must be higher than the 2 outer stall positions

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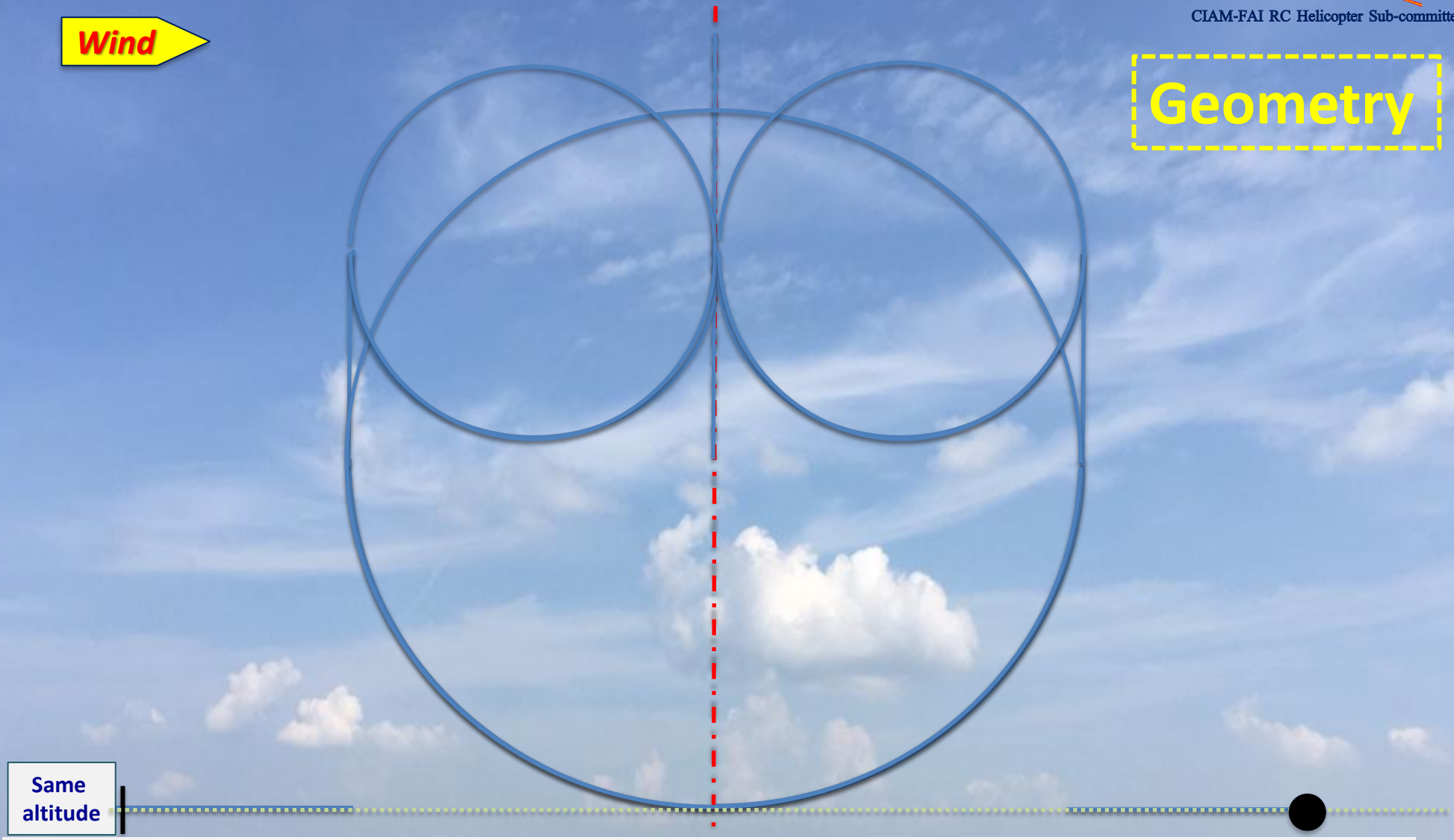
Geometry



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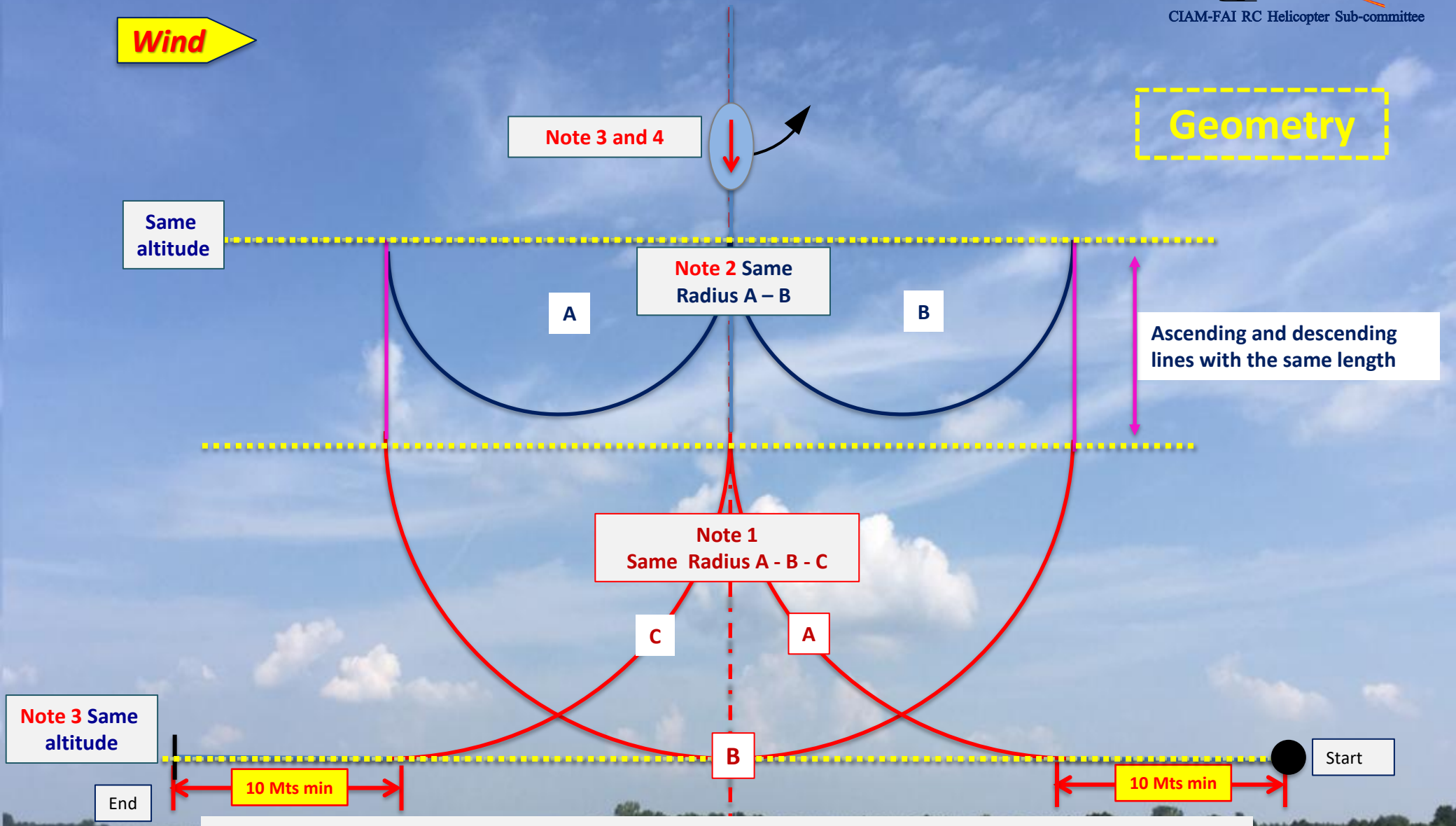

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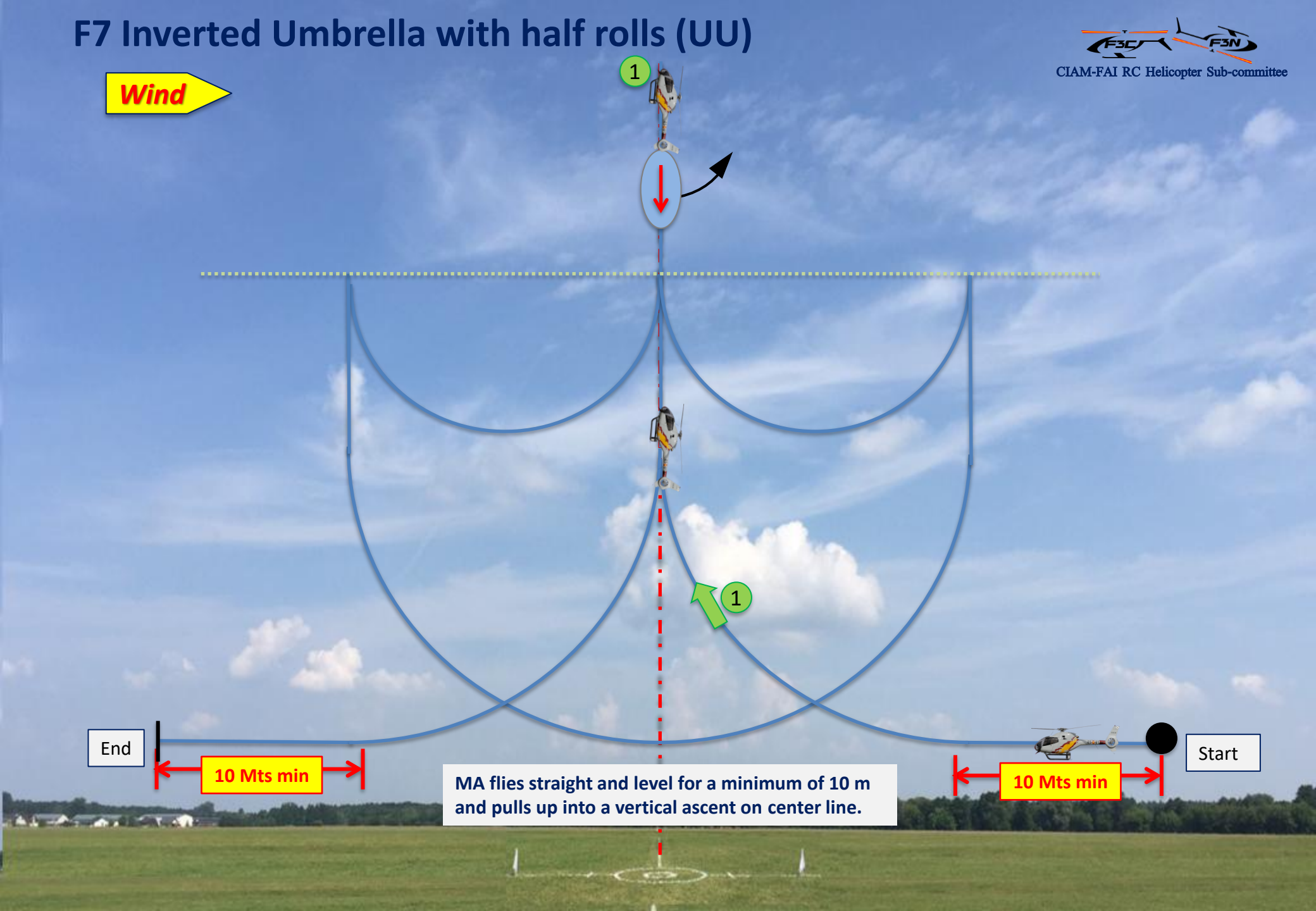

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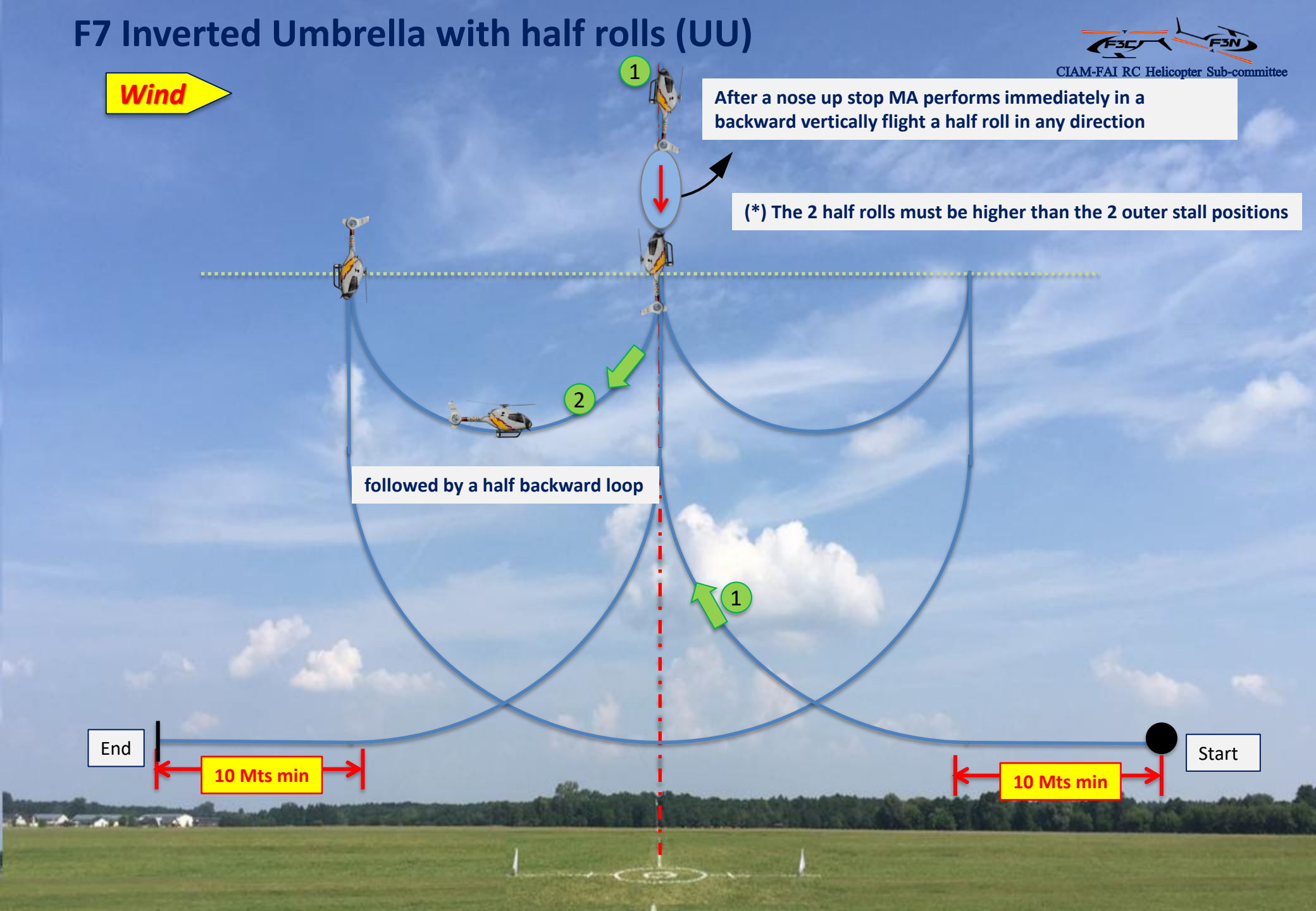

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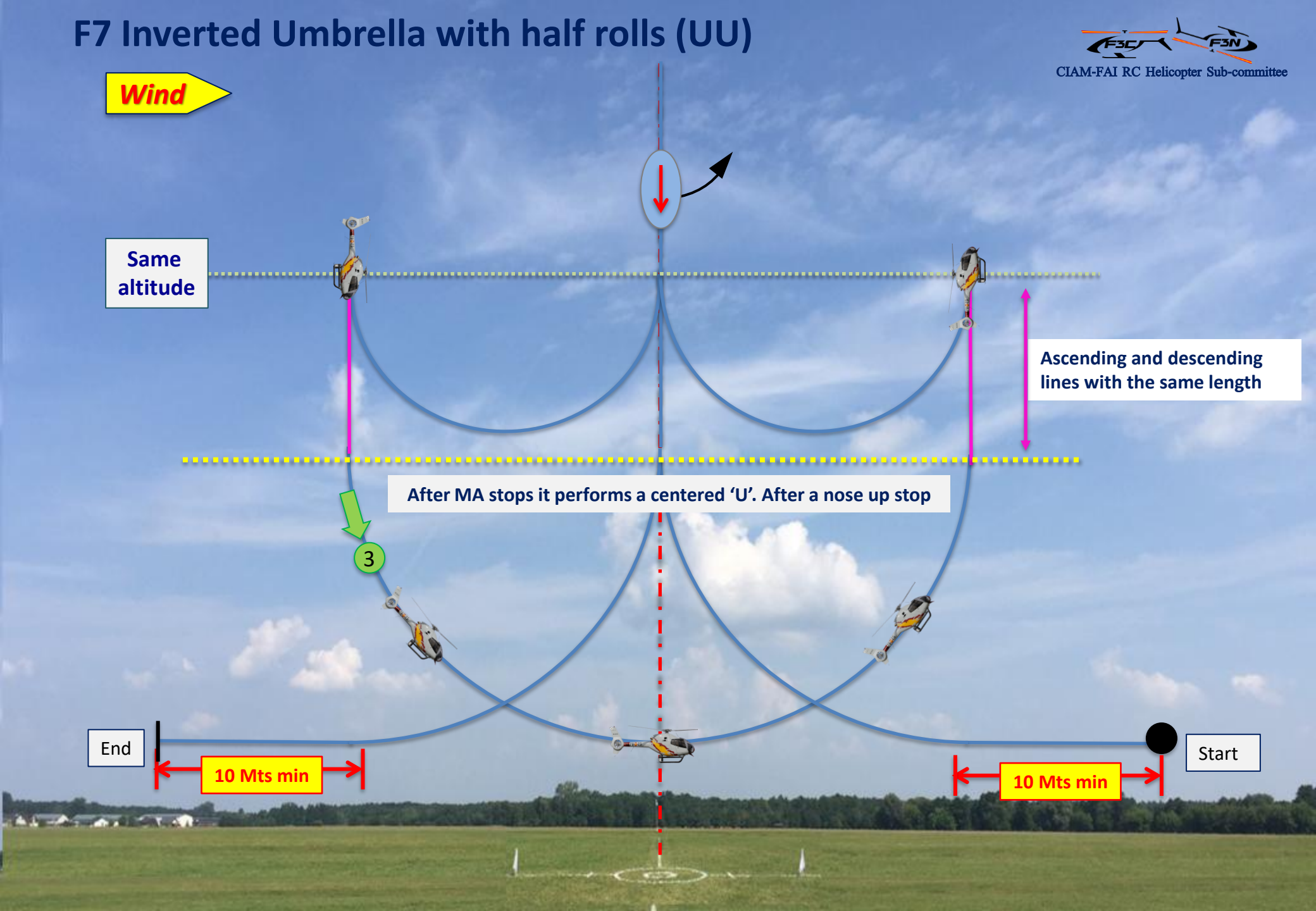

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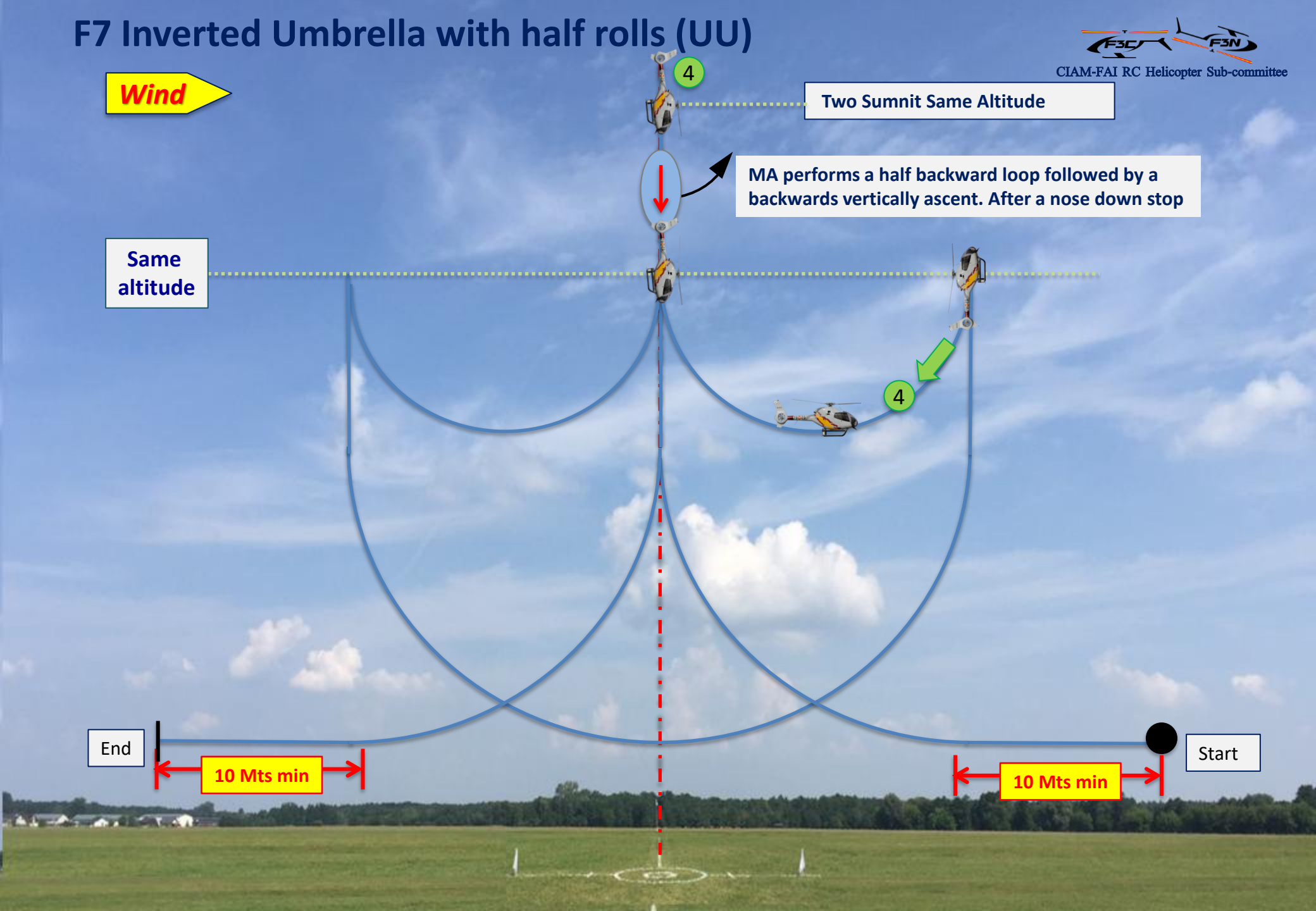

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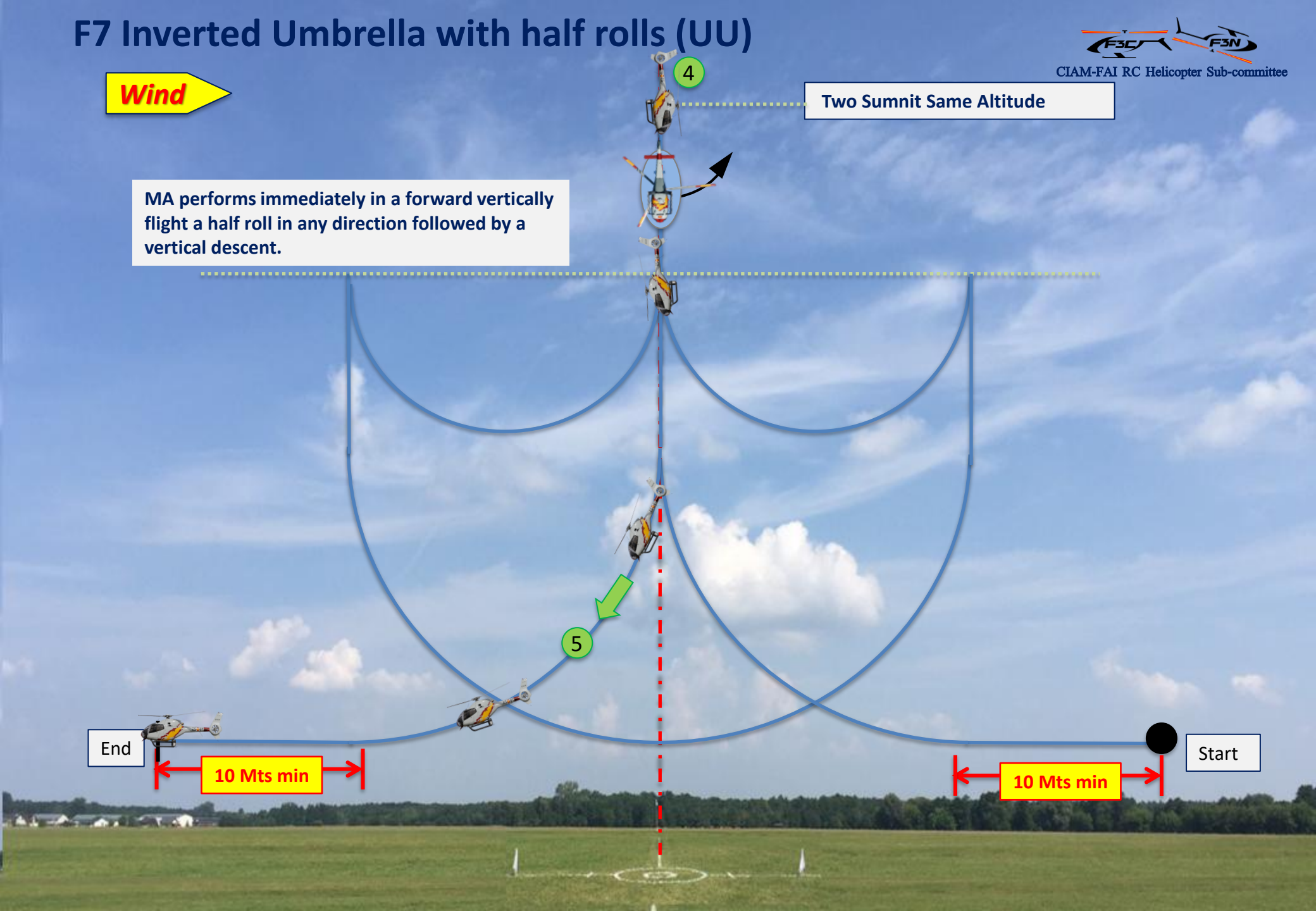

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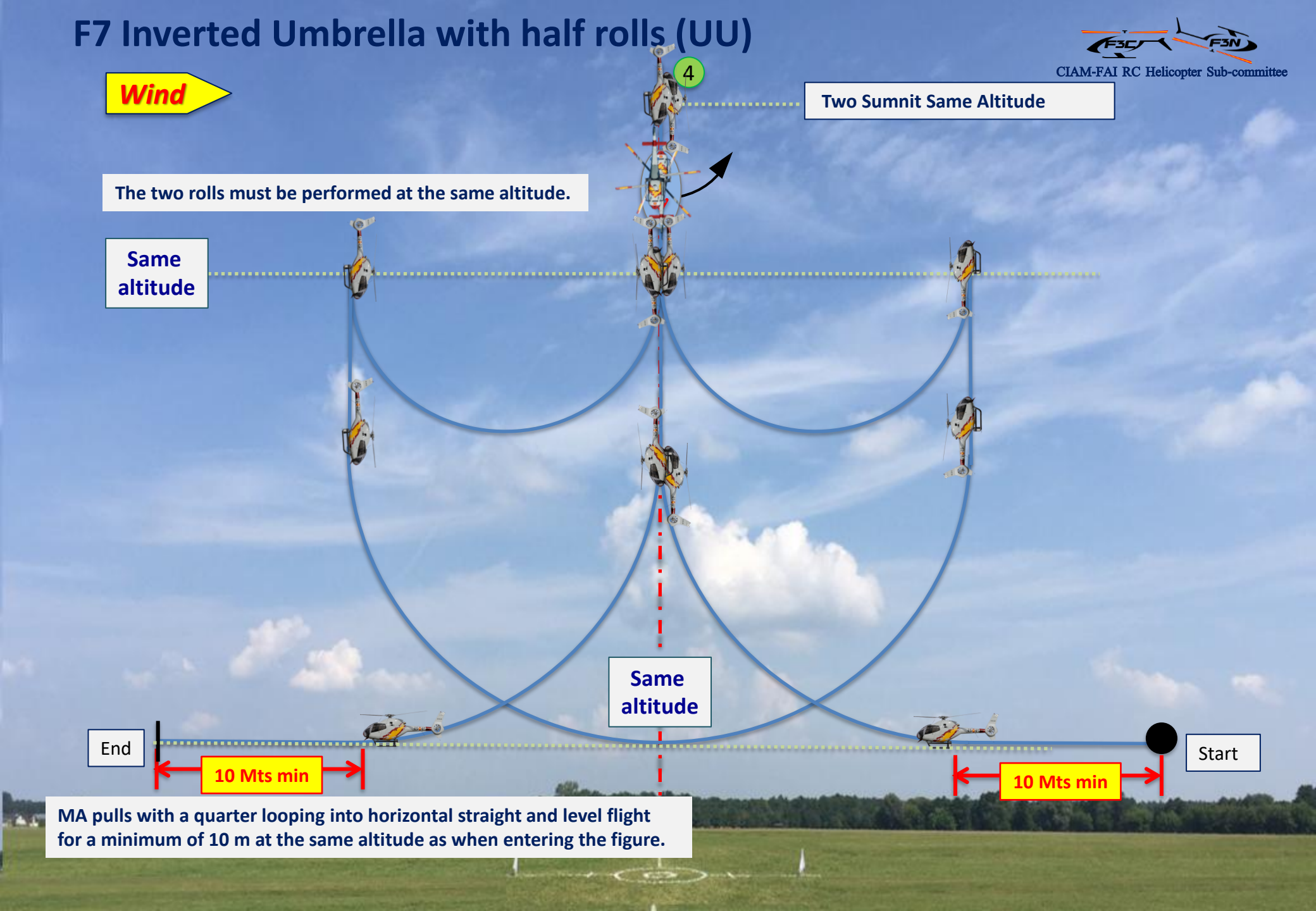

MA pulls with a quarter looping into horizontal straight and level flight for a minimum of 10 m at the same altitude as when entering the figure.

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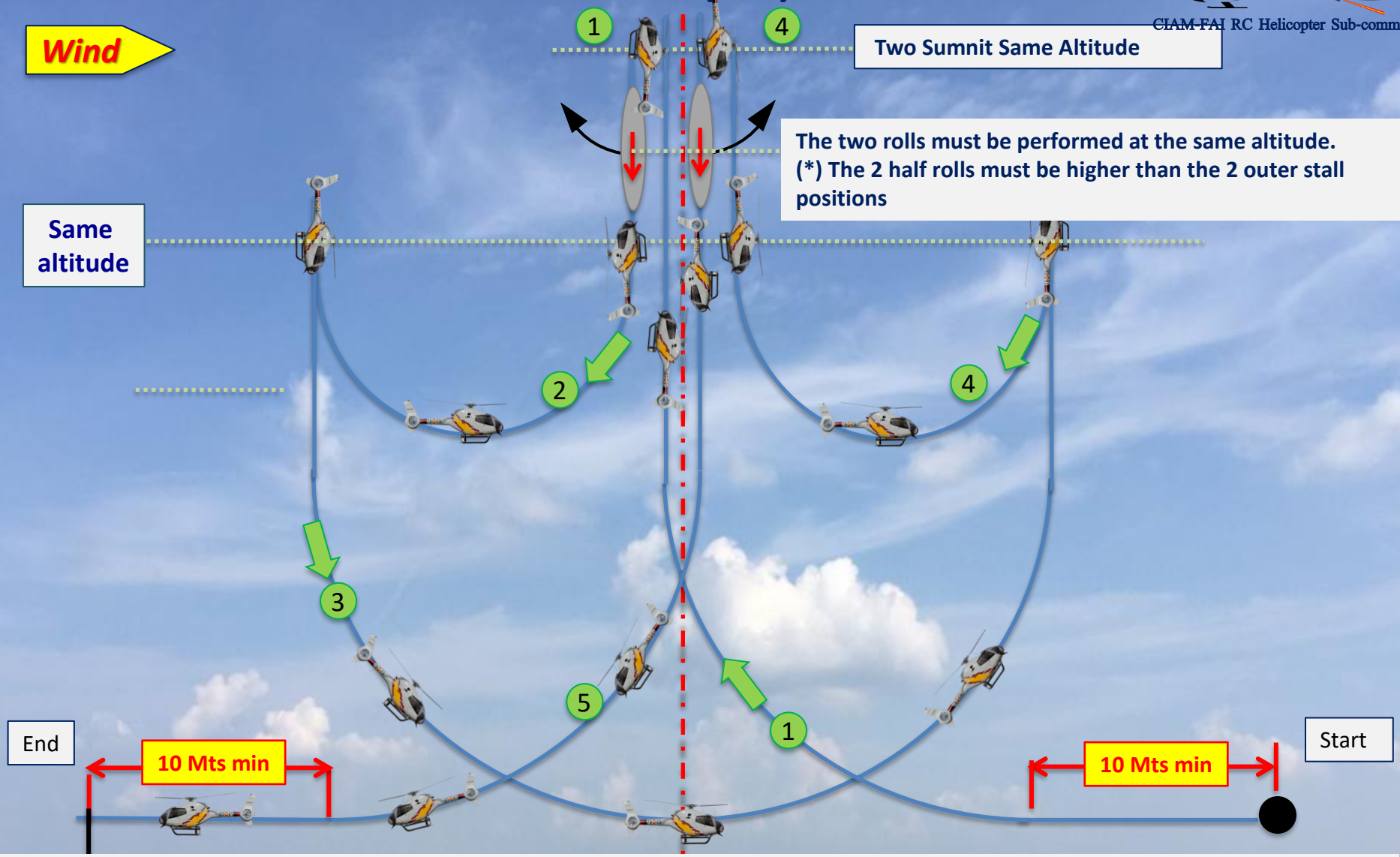

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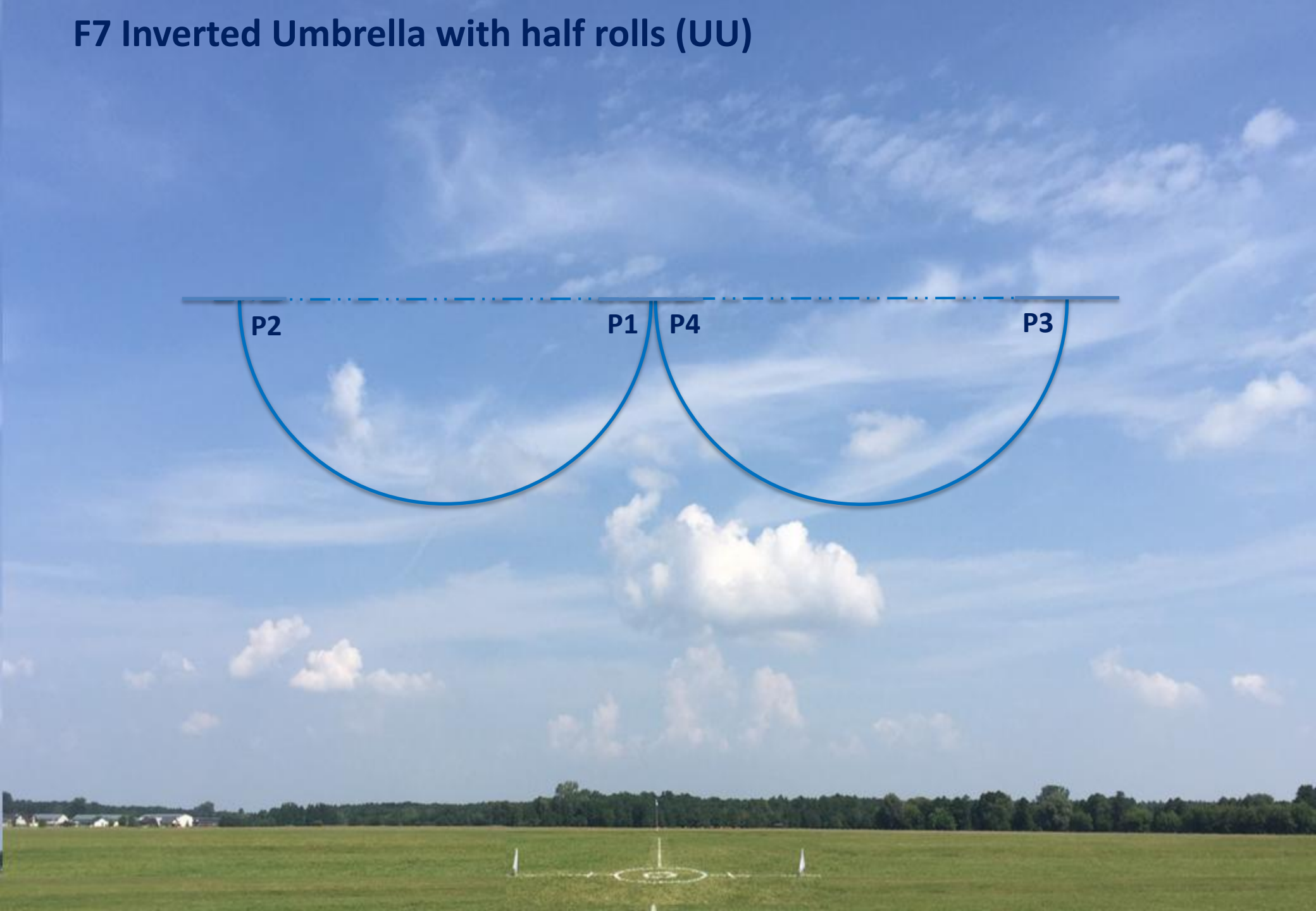

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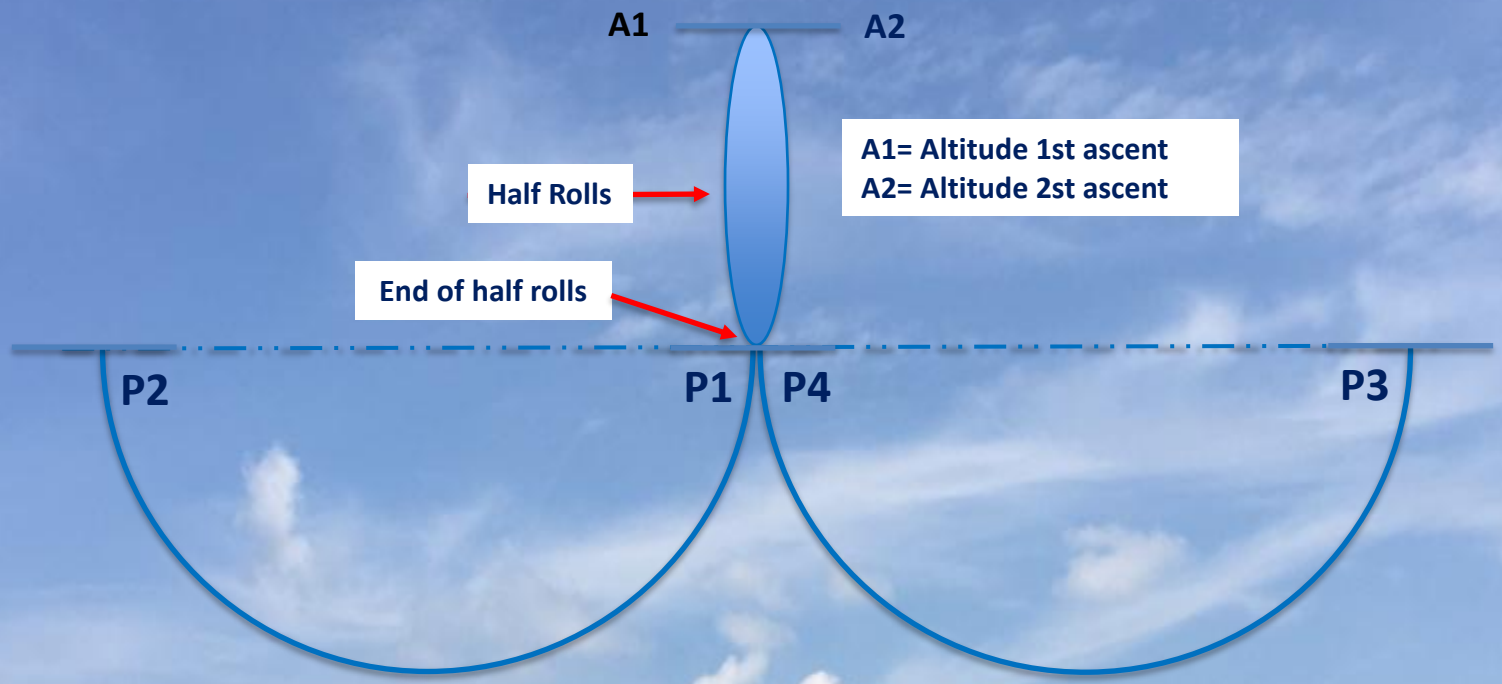

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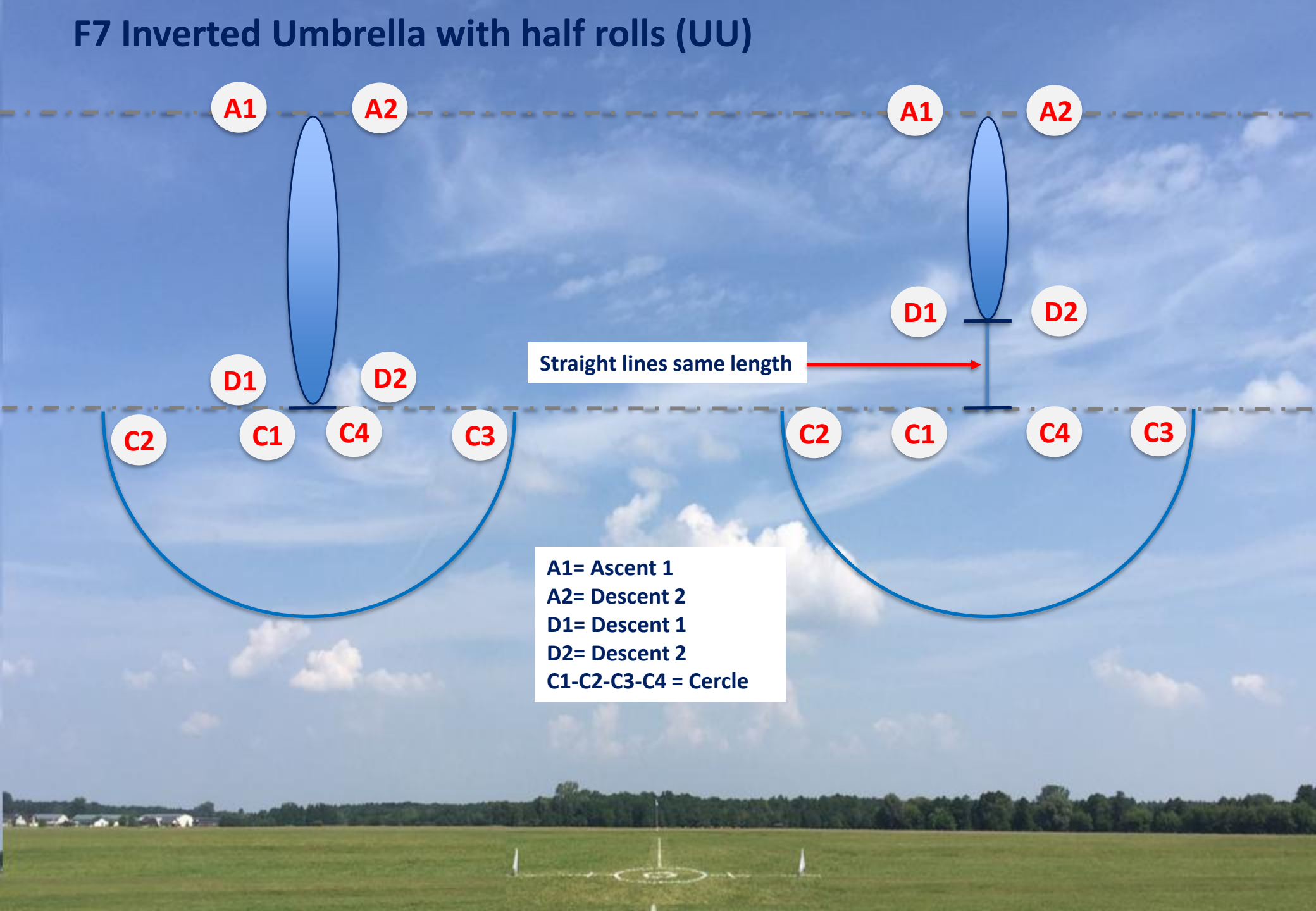

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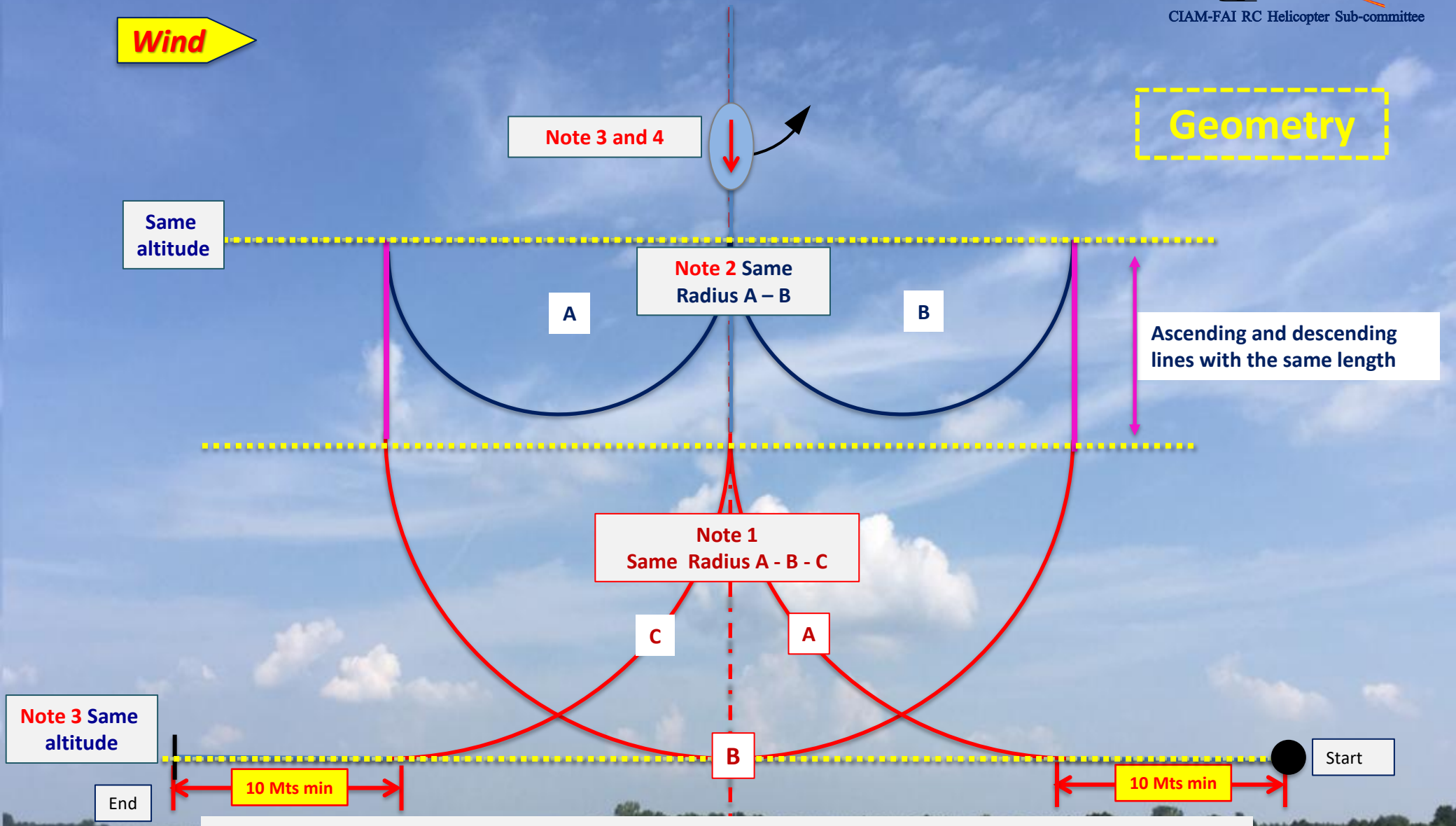

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Thanks for your interest

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