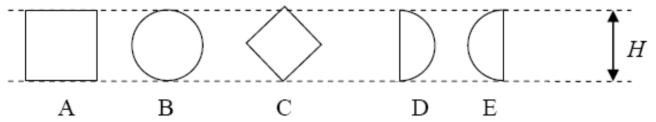
Individual task:

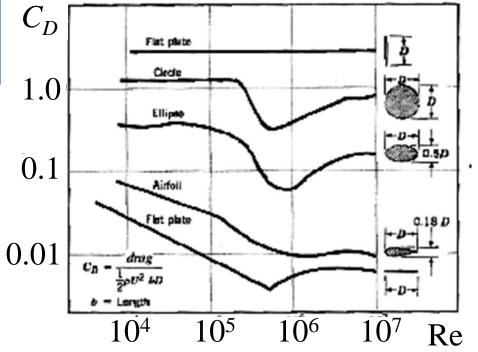
• Drag for a 2D object:

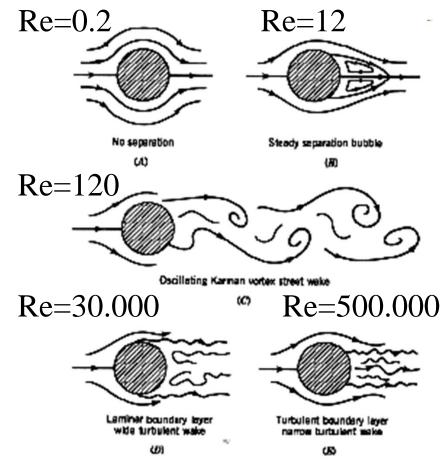


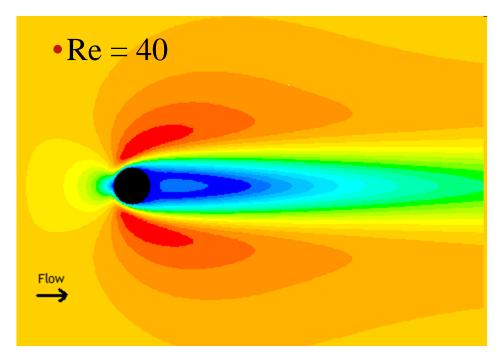


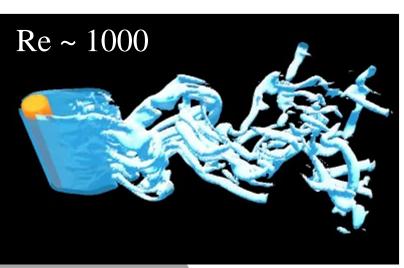
Reynolds no. dependency

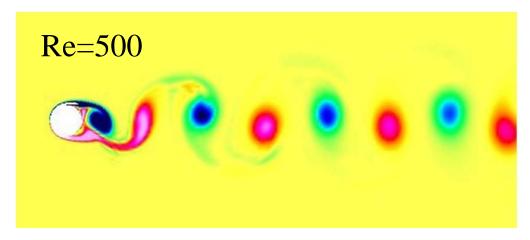


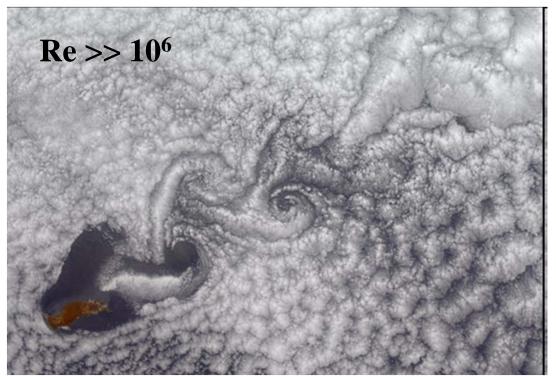










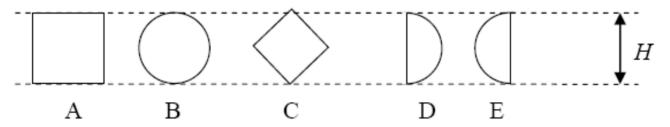


What to do:

Objective

To derive the drag coefficient for a 2D object





- Setting
 - Choose object
 - Choose $Re=10^4$, 10^5 or 10^6
 - Incompressible: Ma<0.1
- Derive
 - Drag coefficient
 - Grid and flow pictures
- Different approximations no "correct answer"

When:



- Preparation for lecture 2 (28/3):
 Sketch, Physical model, Reynolds number
- During lecture 2 (28/3):
 Determine the grid resolution requirements
- Before 18/4 12:00:
 Compute the case using Fluent
 Upload on bilda
- During lecture 5 (23/4):
 I will compare the different results feedback