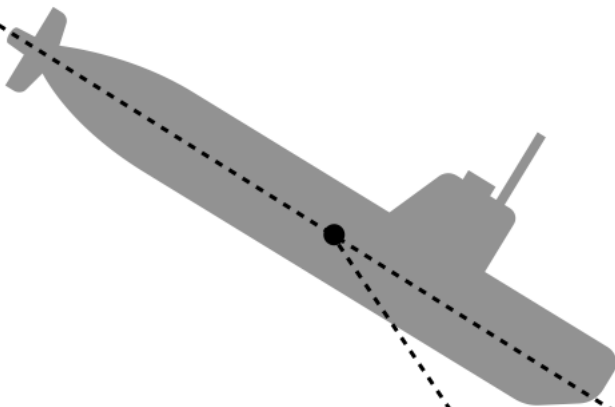


water surface



pitch angle

motion path angle

angle of attack

velocity (motion path vector)