Test 21: Missile, Thermal Sensor, Radar Fuze

1.

This test verifies that a missile equipped with a thermal sensor and radar fuze can be fired from an airplane towards a ship.

2.

An airplane MY_AIRPLANE1 starts off at a stationary location facing east, with no speed. MY_AIRPLANE1 is equipped with a missile that has a thermal sensor and a radar fuze sensor. A ship MY_SHIP1 starts off with a speed of 1 with a longitude of 30 seconds away from MY_AIRPLANE1 facing north.

3.

define sensor radar FUZE_RADAR1 with field of view 30 power 50 sensitivity 10 define sensor thermal FUZE_THERMAL1 with field of view 45 sensitivity 0.1

define munition missile MUNITION_MISSILE1 with sensor FUZE_RADAR1 fuze FUZE_THERMAL1 arming distance 1.0

define airplane ACTOR_AIRPLANE1 with munition (MUNITION_MISSILE1)

define ship ACTOR_SHIP1 with munition (MUNITION_MISSILE1)

create actor MY_AIRPLANE1 from ACTOR_AIRPLANE1 at
49*39'37.9#/117*26'19.0#/0 with course 90 speed 0

create actor MY_SHIP1 from ACTOR_SHIP1 at 49*39'37.9#/117*25'30.0#/0 with course 0 speed 1

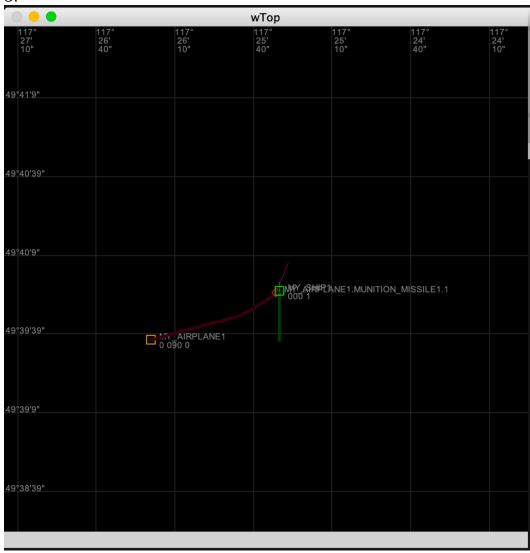
set MY_AIRPLANE1 load munition MUNITION_MISSILE1

@wait 10

set MY_AIRPLANE1 deploy munition MY_AIRPLANE1.MUNITION_MISSILE1.1

The missile should chase after ${\tt MY_SHIP1}$ and eventually strike ${\tt MY_SHIP1}$.

5



Log entry 1433 shows that MY_AIRPLANE1.MUNITION_MISSILE1.1 has been deployed after 10 seconds towards MY_SHIP1. Entry 1873 shows MY_AIRPLANE1.MUNITION_MISSILE1.1 striking MY_SHIP1.

- 7. The actual results are constituent with the expected results.
- 8. A different ship should target MY_SHIP1 instead of an aircraft, this would verify that a missile can be deployed from different types of actors.