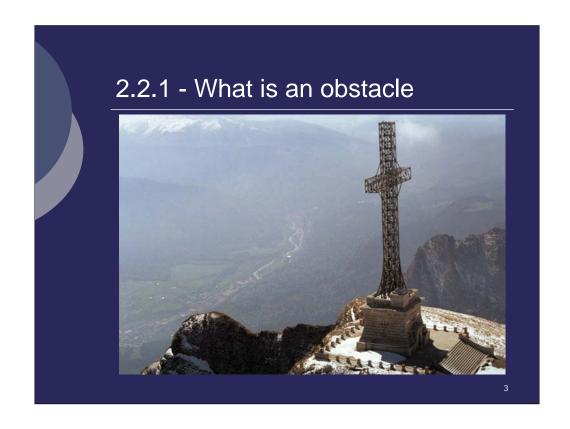


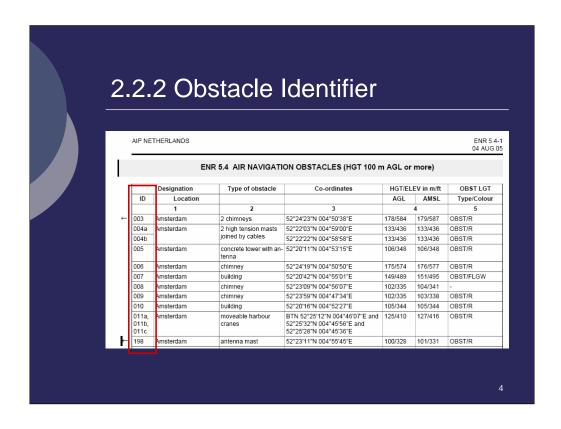
Obstacle – Requirements Analysis

AIXM 5 Public Design Review February 7-8, 2006 Washington DC

Requirements analysis

- o ICAO
 - Annex 15 Aeronautical Information Services
 - ANNEX 4 Aeronautical Charts
 - ANNEX 14 Aerodromes
 - DOC 8126 AIS Manual NOTAM Selection Criteria
- o RTCA/EUROCAE
 - DO-276/ED-98 User Requirements for Terrain and Obstacle Data
- o AICM version 4.5
 - change proposals to version 4.5
- o IATA
 - Standard Format

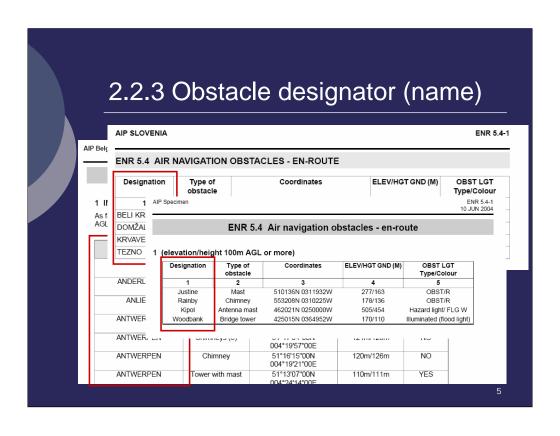




"003" is not unique world-wide

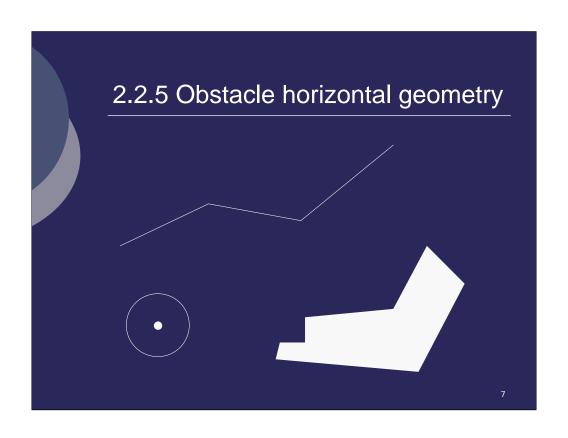
"EH-003" could be unique world-wide

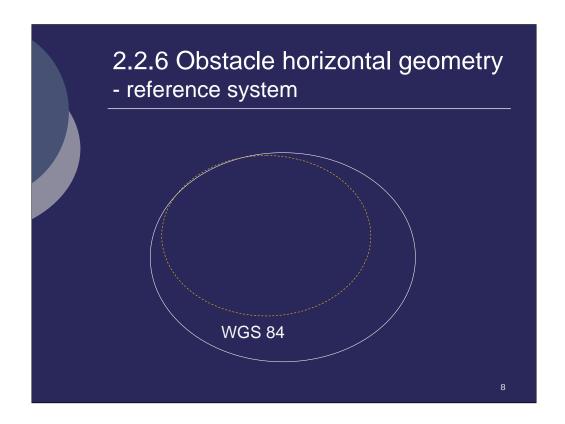
Computer generated from a central system - "1245-5454-5428-3665-4424-5442" could be unique world-wide (first group could be a Country identifier, following groups could be timestamps, etc.)



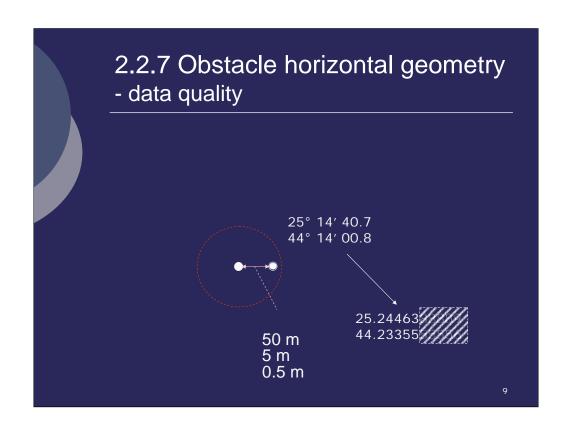
2.2.4 Obstacle type

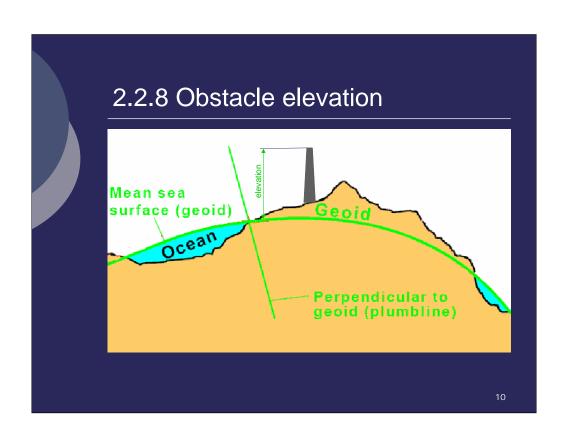
Arch Elevator Transmission Line Cable Car/Railway Tethered Balloon Monument Tower Fence Bridge Power Plant Tramway Grain Elevator Building Pole Windmill Lighthouse Catenary Rig Antenna Navaid Cooling Tower Refinery Tree Nuclear Reactor Crane Sign Vegetation Water Tower Natural Highpoint Windmill Farms **Control Tower** Stadium Spire Dam Stack Tank Wall Dome

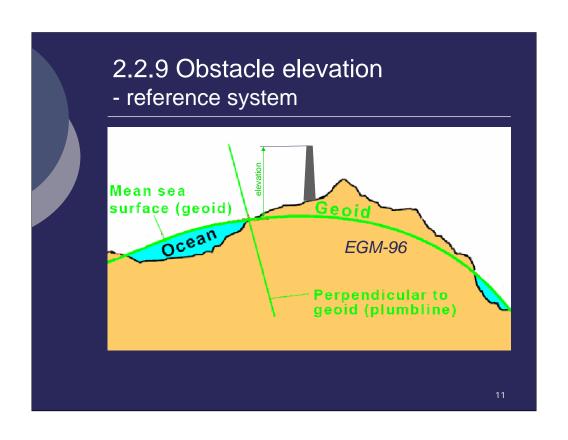


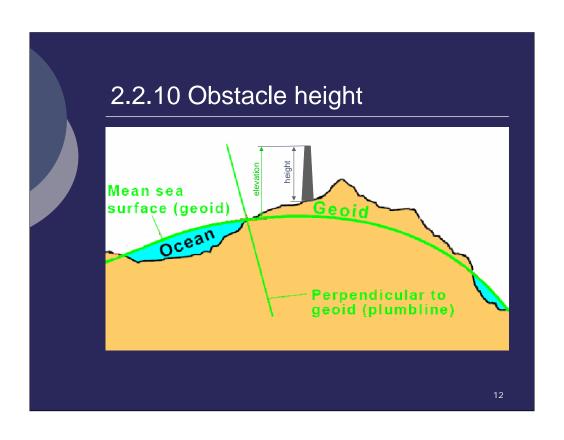


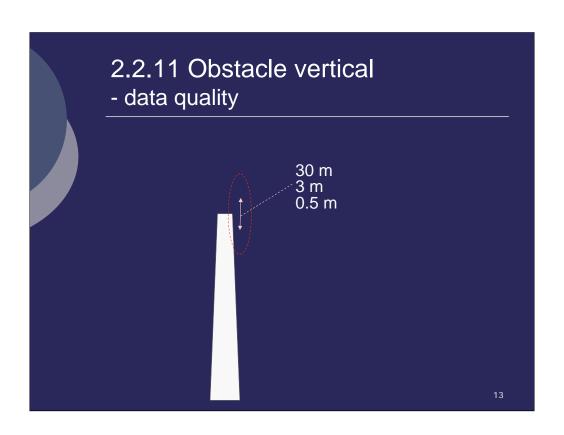
Although the Annex 15 requires that "published aeronautical geographical coordinates (indicating latitude and longitude) shall be expressed in terms of the WGS-84 geodetic reference datum", the obstacle data published world-wide does not yet comply with this requirement. Therefore, for this model, it is still necessary to recognise the use of other datum.

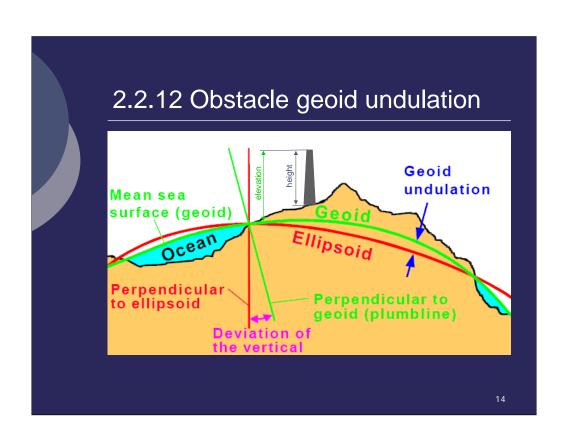


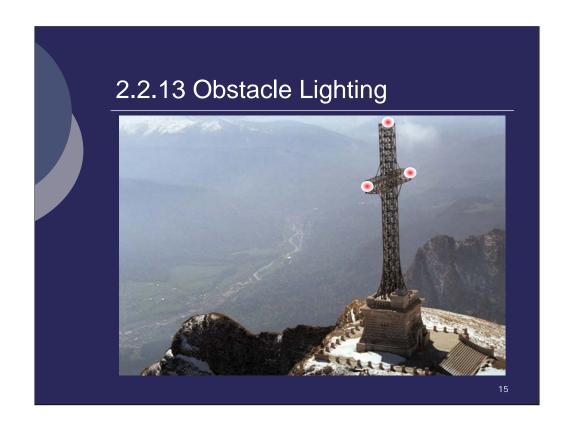


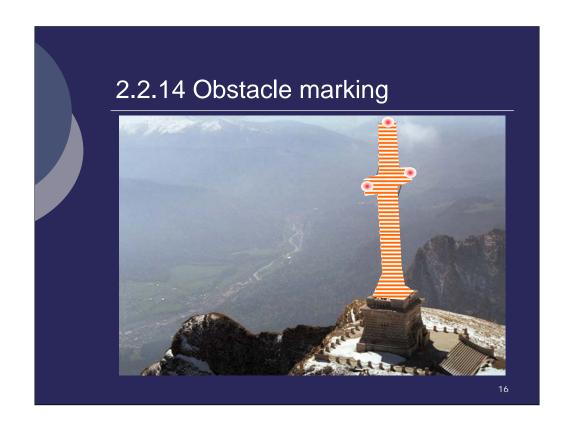




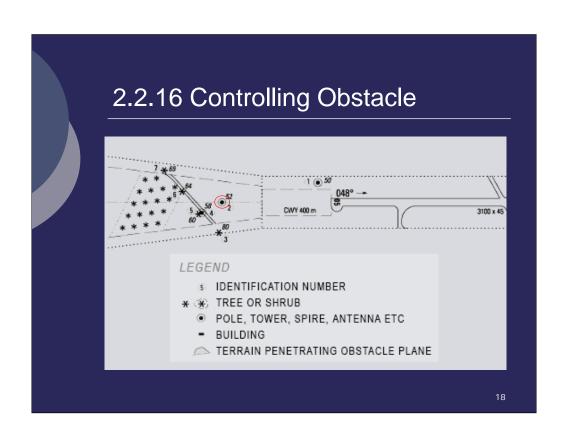










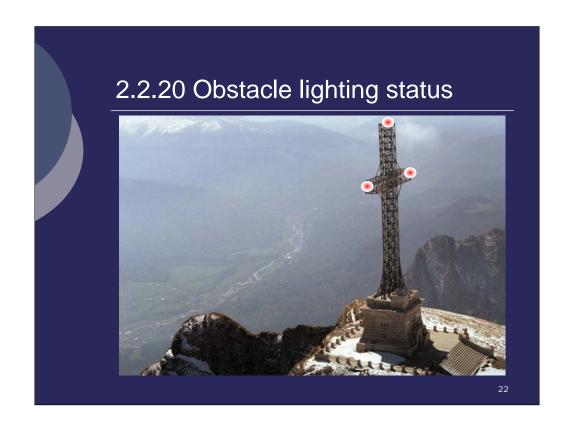


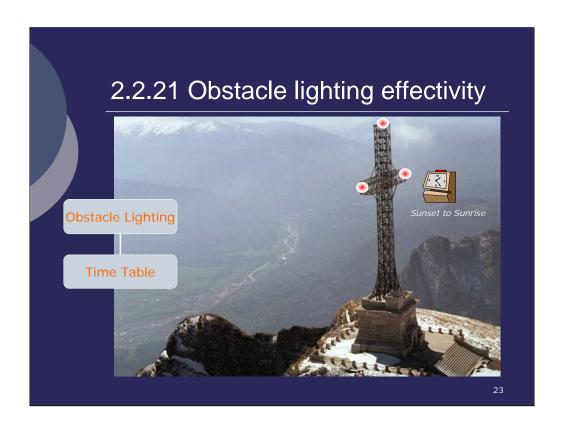
2.2.17 Obstacle temporality

o The general temporality model of AIXM 5 shall be applied











2.23 – 2.25 Other requirements

- Area of coverage (for obstacle data set)
- o Group indicator
- Obstacle association with aerodrome/runway

Not retained as requirements

- o 2.3.1 Aggregated obstacle
- o 2.3.2 Annex 15 Table A.8-4"Elevation reference"
- 2.3.3 Data integrity as attribute of the obstacle
- o 2.3.4 Moving obstacles
- o 2.3.5 Obstacles with variable geometry
- o 2.3.6 Obstacle operations
- 2.3.7 Obstacle associated with State/Territory

