

Counterspace Operations for Information Dominance

by

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Table 5: Ground Resolution Requirements for Object Identification (in meters)

(a) Target	(b) Detection	(c) General ID	(d) Precise ID	(e) Description	(f) Technical Analysis
Bridges	6	4.5	1.5	1	0.3
Communications					
Radar	3	1	0.3	0.15	0.015
Radio	3	1.5	0.3	0.15	0.015
Supply Dumps	1.5	0.6	0.3	0.03	0.03
Troop Units in Bivouac or on Road	6	2	1.2	0.3	0.15
Airfield facilities	6	4.5	3	0.3	0.15
Rockets/Artillery	1	0.6	0.15	0.05	0.045
Aircraft	4.5	1.5	1	0.15	0.045
C2 Headquarters	3	1.5	1	0.15	0.09
SSM/SAM Sites	3	1.5	0.6	0.3	0.045
Surface Ships	7.5	4.5	0.6	0.3	0.045
Nuclear Weapons Components	2.5	1.5	0.3	0.03	0.015
Vehicles	1.5	0.6	0.3	0.06	0.045
Land Mines	9	6	1	0.03	0.09
Ports and Harbors	30	15	6	3	0.3
Coasts/Beaches	30	4.5	3	1.5	0.15
Rail Yards & Shops	30	15	6	1.5	0.4
Roads	6-9	6	1.8	0.6	0.4
Urban Areas	60	30	3	3	0.75
Terrain		90	4.5	1.5	0.75
Surfaced Submarines	30	6	1.5	1	0.03

(a) Chart indicates minimum resolution in meters at which target can be detected, identified, described, or analyzed. No source specifies which definition of resolution (pixel-size or white-dot) is used, but the chart is internally consistent.

(b) Detection: Location of a class of units, object, or activity of military unit.

(c) General Identification: Determination of general target type.

(d) Precise Identification: Discrimination within a target group.

(e) Description: Size/dimension, configuration/layout, component construction, equipment count, etc.

(f) Technical Analysis: Detailed analysis of specific equipment.