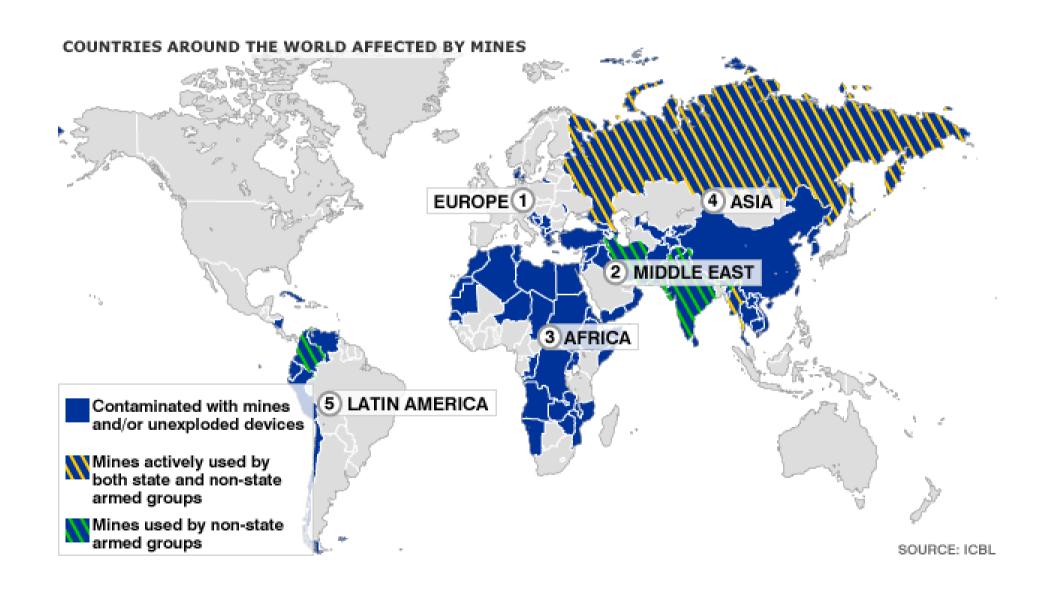
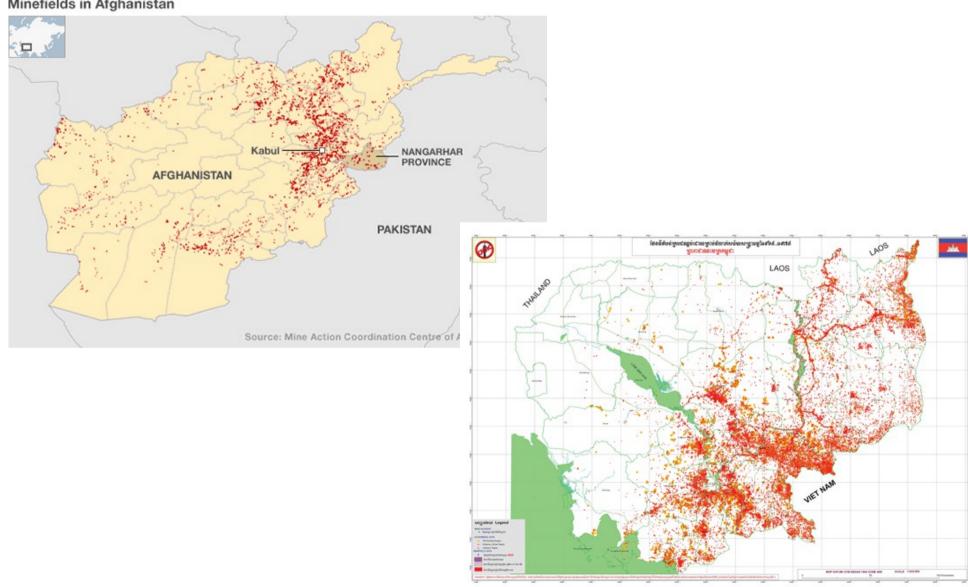


How Prolific are Minefields?



Minefields in Afghanistan



How are they tracked?

STANLEY MINEFIELD AND AREA CLEARANCE SITUATION MAP AS AT 01 JAN 86 This map supersedes previously produced Stanley Minefield situation map dated 01 SEP 85 MOVING MINES Category 1 - GREEN. These areas have been exhaustively checked by the Royal There have been recorded instances Engineers and are believed to be safe. of mines found on beach or river 83bank areas outside marked minefields. Category 2- BLUE. There is no evidence at All parts of the Falkland Islands may There is a possibility that a small all that these areas contain minefields or number of mines laid below the high contain dangerous materials and booby traps. However they may contain ammunition. Do not touch anything water mark have been washed unexploded bombs, ammunition, missiles etc. outside fenced areas. suspicious. Place a marker nearby Category 3 - RED. These areas are known and report it to the SPECIAL CARE MUST BE TAKEN to contain mines or booby traps. ON BEACHES AND RIVERS JOINT SERVICES EOD DO NOT ENTER. This includes all minefields that have a ADJACENT TO RED AREAS. **OPERATIONS CENTRE** water line as a boundary, Manned 24 hours a day. Warning signs have been placed in identified risk areas. Tel: Civil 460 2M Band: Bomb Disposal, BFFI 2194 NOTE:Penguin Walk NOTE: Stay to northside of fence. -69 Sht15/9 Edn3



Study Area: Culebra, PR



Culebra

Culebra Island Map



Flamenco Beach



Department of Defense



Study Relating to the Presence of Unexploded Ordnance in a Portion of the Former Naval Bombardment Area of Culebra Island, Commonwealth of Puerto Rico

Conducted Pursuant to Section 2815 of the Ike Skelton National Defense Authorization Act for Fiscal Year 2011, Public Law 111-383

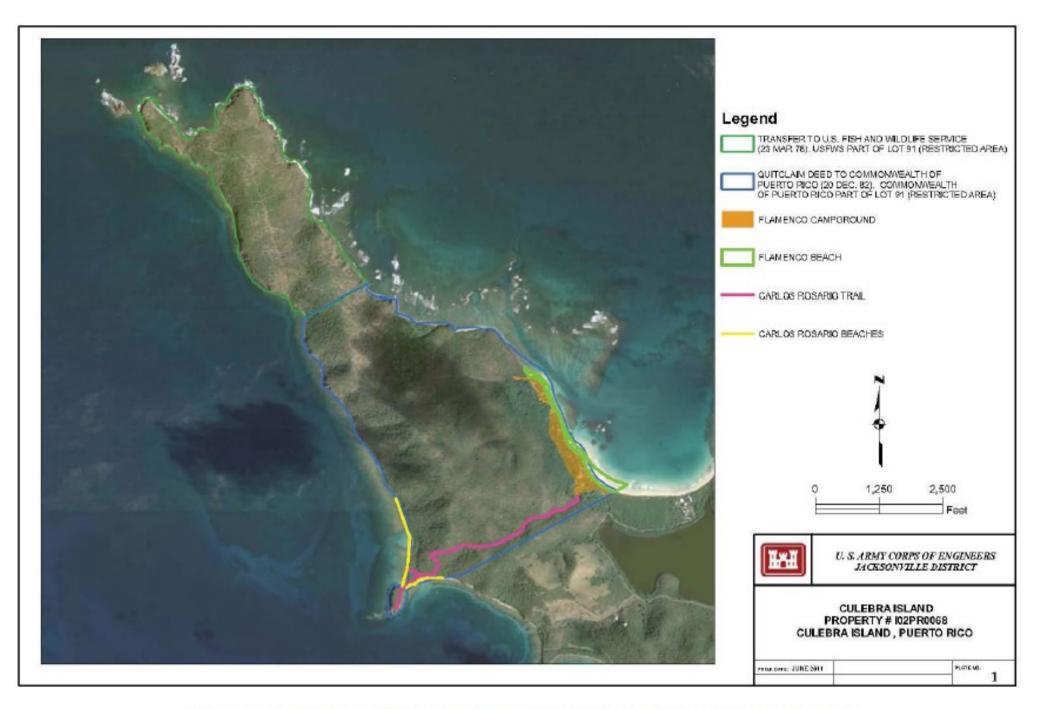


Figure 1. Map of Study Area (Quitclaim Deed Boundary)

Danger Signs, Flamenco Beach



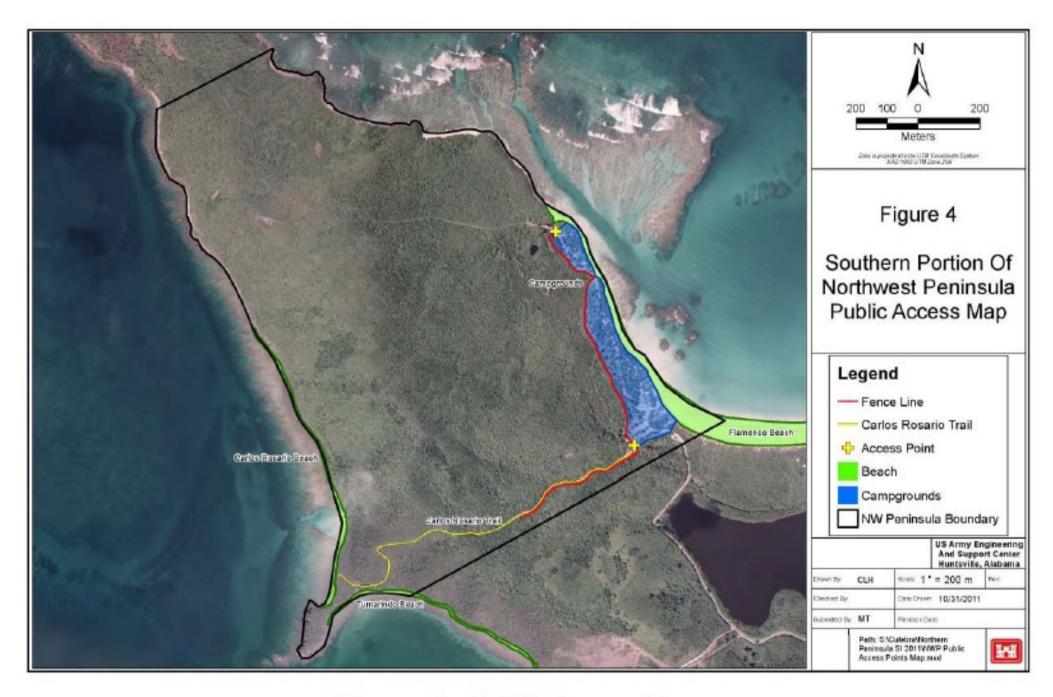


Figure 4. Public Access Map

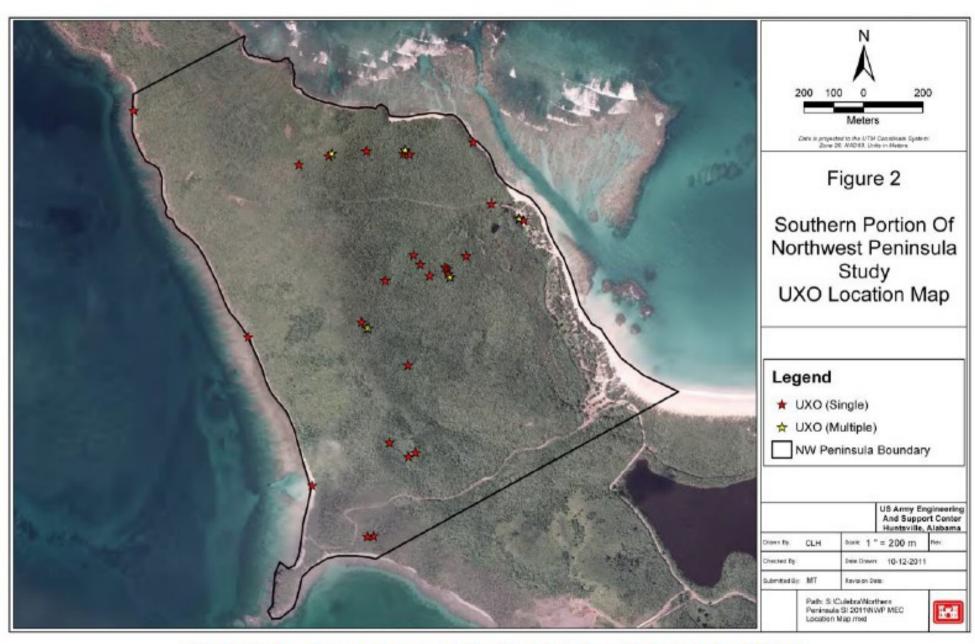


Figure 2. Locations of Individual or Multiple UXO

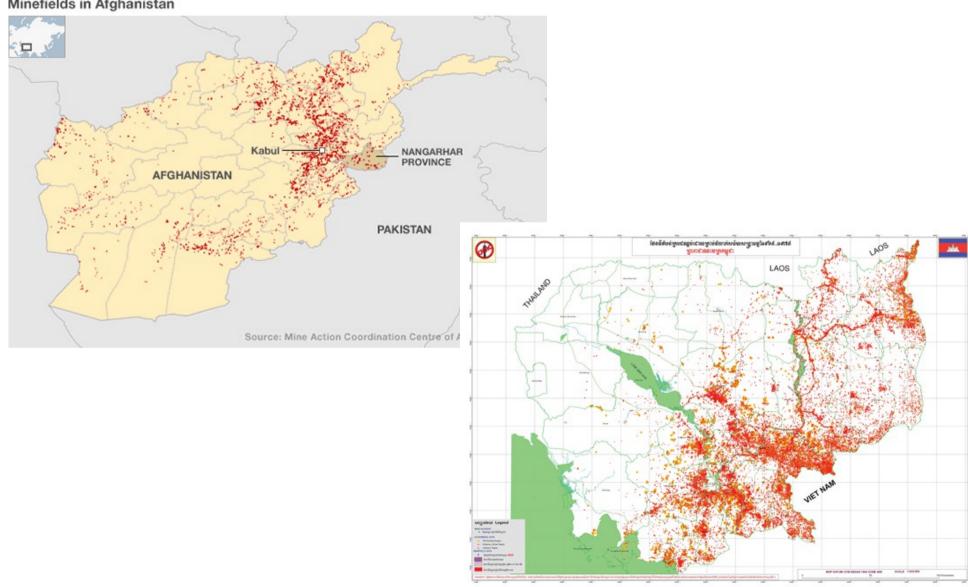


Table 1. Estimated Cost for UXO Removal from the Study Area

Area	Estimated Cost per Acre	Estimated Acreage	Estimated Subtotal Cost by Density Area
High density	\$115,211	115.19	\$13,271,155
High density, with steep slope	\$161,296	38.36	\$6,187,315
Medium density	\$104,454	65.48	\$6,839,648
Medium density with steep slope	\$146,236	22.96	\$3,357,579
Low density	\$96,366	90.24	\$8,696,068
Low density, with steep slope	\$134,912	75.77	\$10,222,282
Estimated Cost-to-Complete (CTC) for Removal Activities		408	\$48,574,047*

^{*}Additional cost of \$490K required to prepare environmental documentation to implement removal activities.

Minefields in Afghanistan



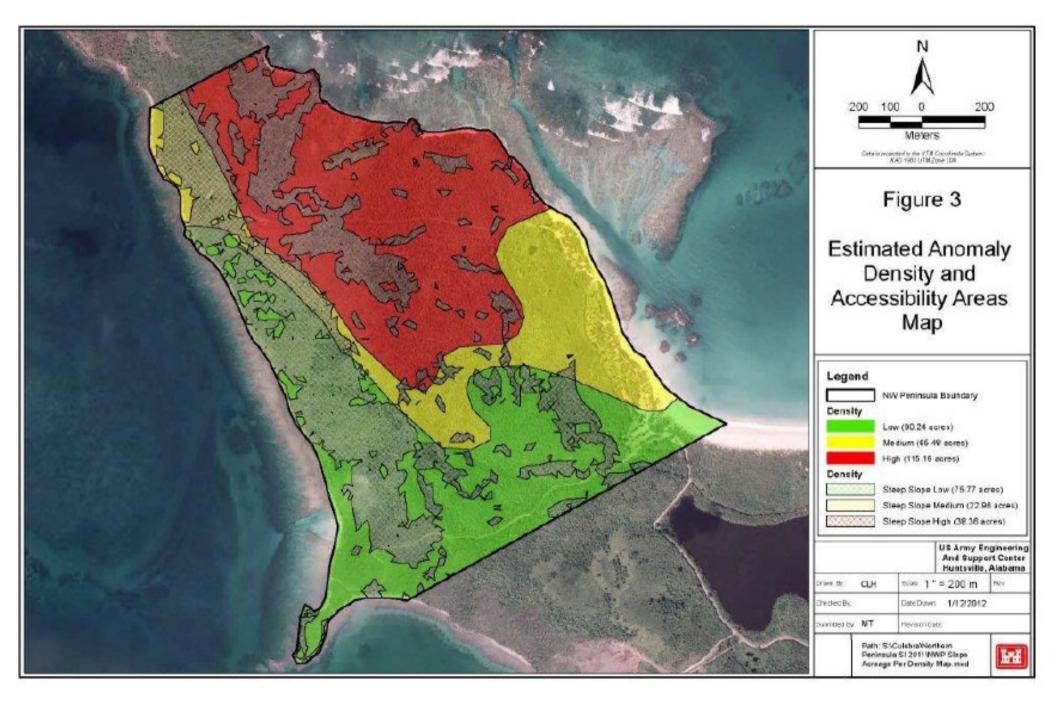
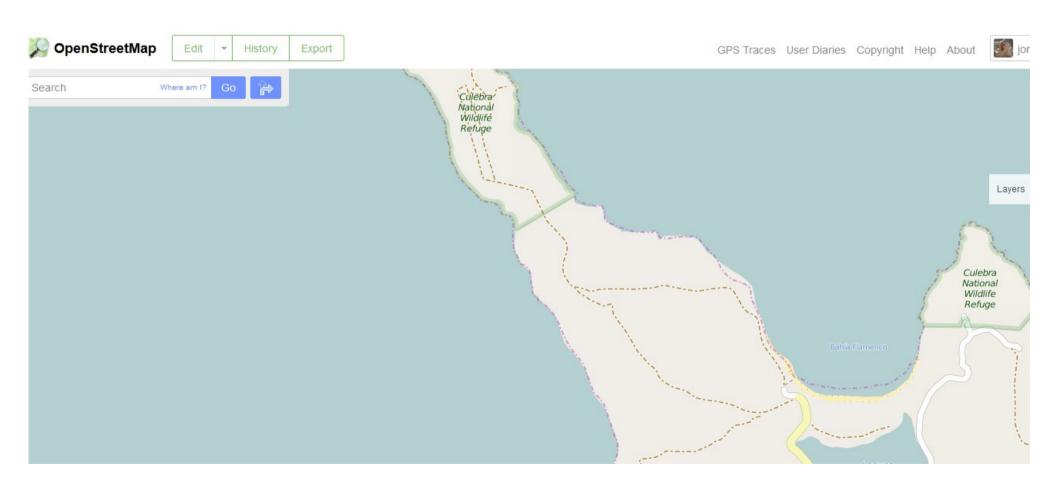


Figure 3. Estimated Anomaly Density and Accessibility Areas Map

Current OpenStreetMap



Tagging minefields



hazard=minefield

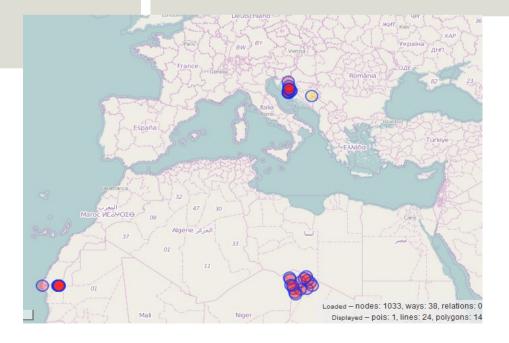
Relation

No English language description for this tag in the wiki. (See also the "Wiki" tab.)

Overview	Combinations	Map Wiki	Projects
Overview			
Туре	Nu	mber of objects	
≭ All	39	0.00%	
Node	1	0.00%	
	38	0.00%	

0.00%

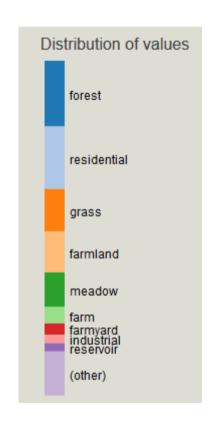
Value		Count
children	795	17.14%
erosion	313	6.75% ■
wild_animals	306	6.60% ■
moose	300	6.47% ■
yes	193	4.16%
animal_crossing	126	2.72%
curve	103	2.22%
cyclists	98	2.11%
rock_slide	98	2.11%
slippery_road	88	1.90%
side_winds	88	1.90%



landuse=minefield

No English language description for this tag in the wiki. (See a

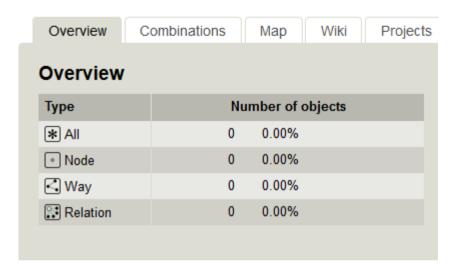
Overview	Combinations	Мар	Wiki	Projects
Overview				
Туре	Nu	ımber of o	bjects	
* All	0	0.00%		
Node	0	0.00%		
Way	0	0.00%		
Relation	0	0.00%		





military=minefield

No English language description for this tag in the wiki. (Se-



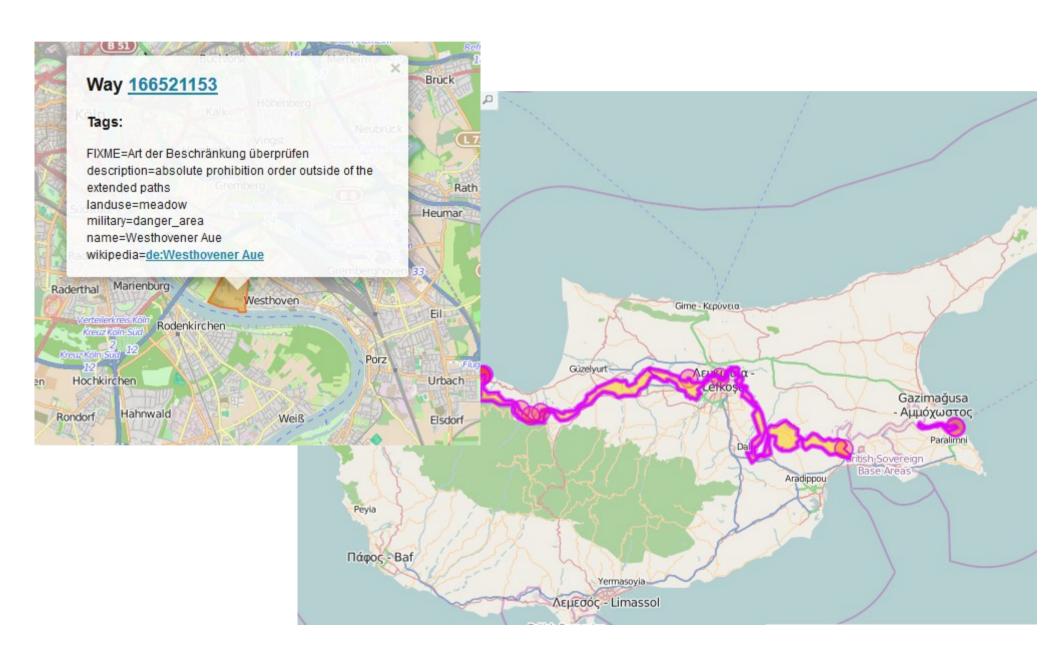
military=danger_area

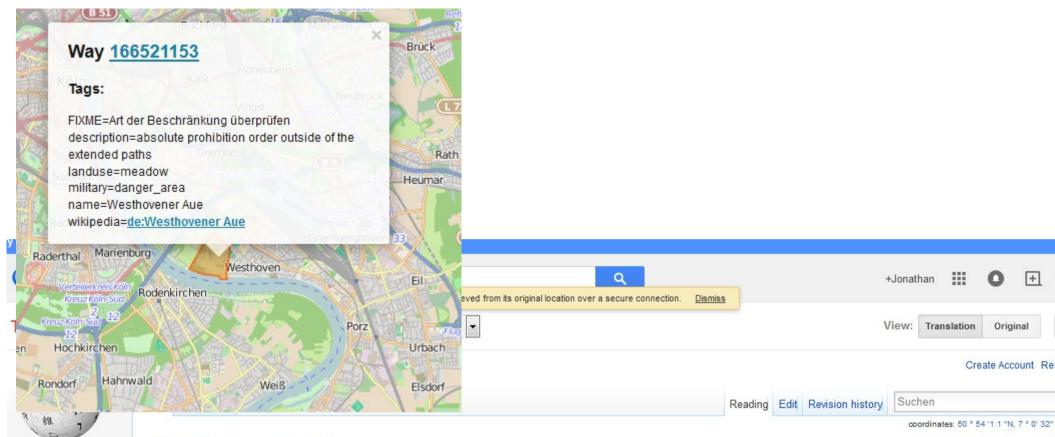
An exclusion zone around something like a firing range

Overview	Combinations	Map Wiki	Projects
Overview			
Туре	Nu	mber of objects	
* All	469	0.00%	
Node	15	0.00%	
Way	418	0.00%	
Relation	36	0.00%	



Military=danger_area





WikipediA

Die freie Enzyklopädie

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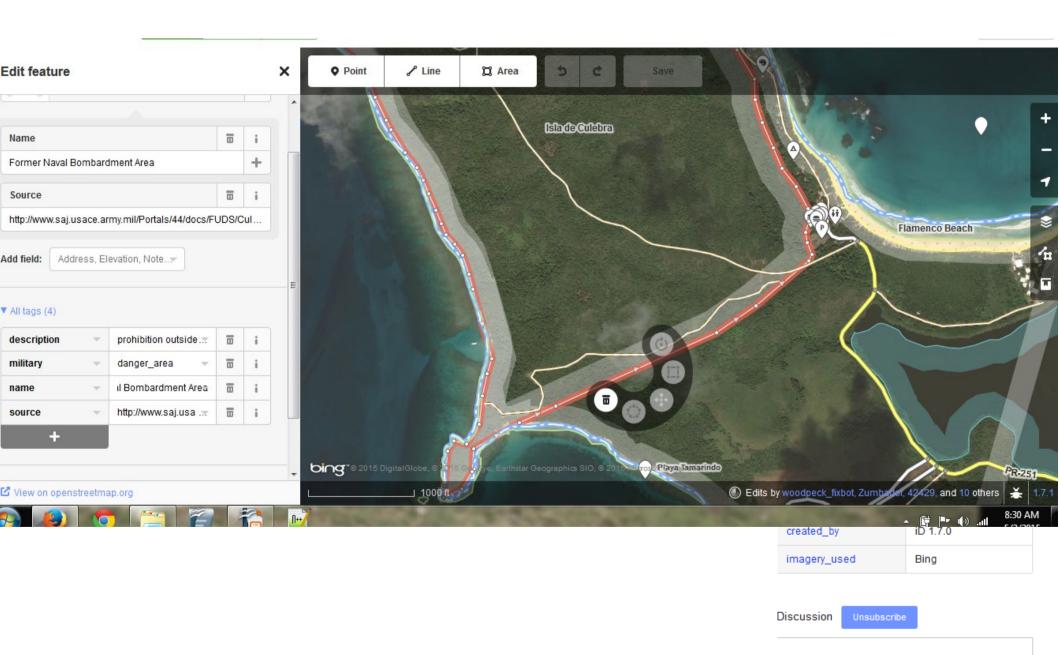
Create a book

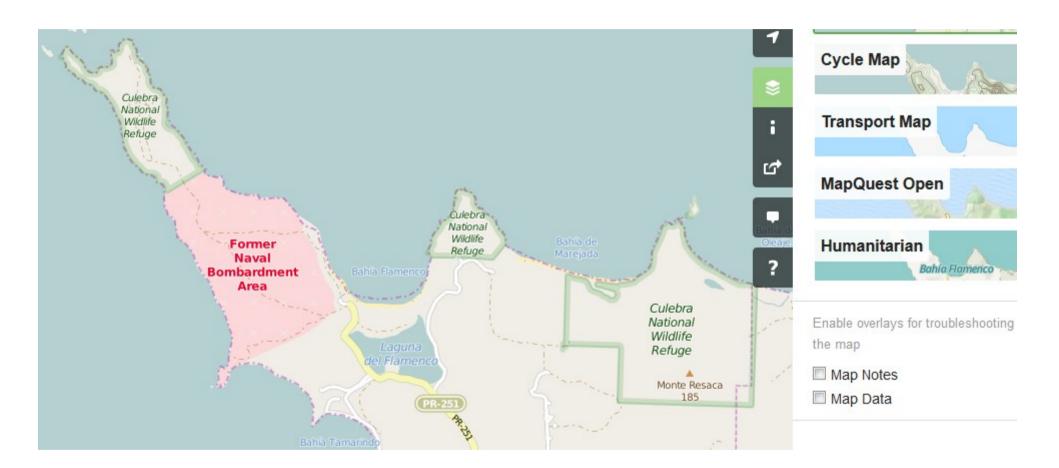
Westhovener Aue

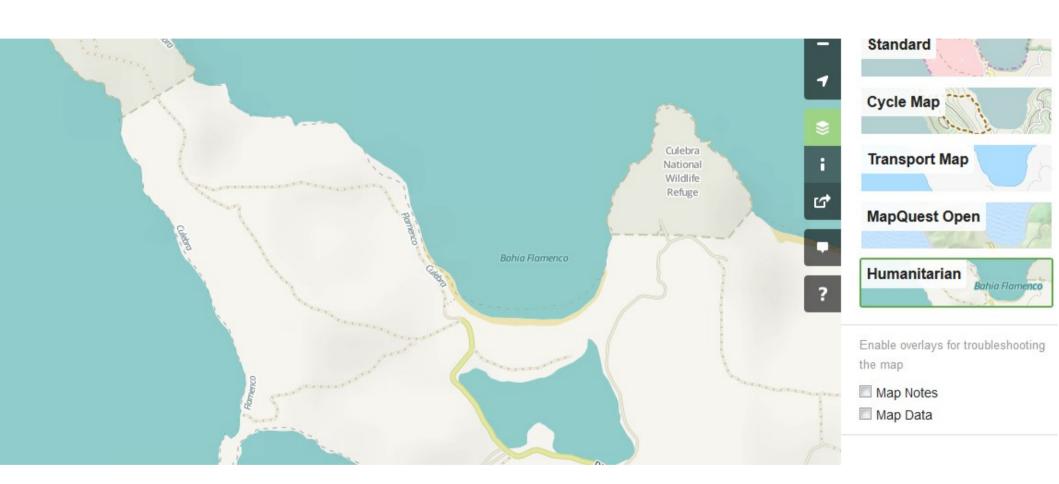
The Westhovener Aue also Westhovener Wigge [1] called, is a recreation area and a former military training ground on the Rhine in Cologne district Westhoven.

Contents 1 Location 2 Flora 3 Fauna 4 History 4.1 defensive ring 4.2 Nazism and World War II 4.3 Postwar 4.4 retention area and recreation 4.4.1 Dismantling of the training area 4.4.2 Dismantling of the barracks site 5 See also 6 References



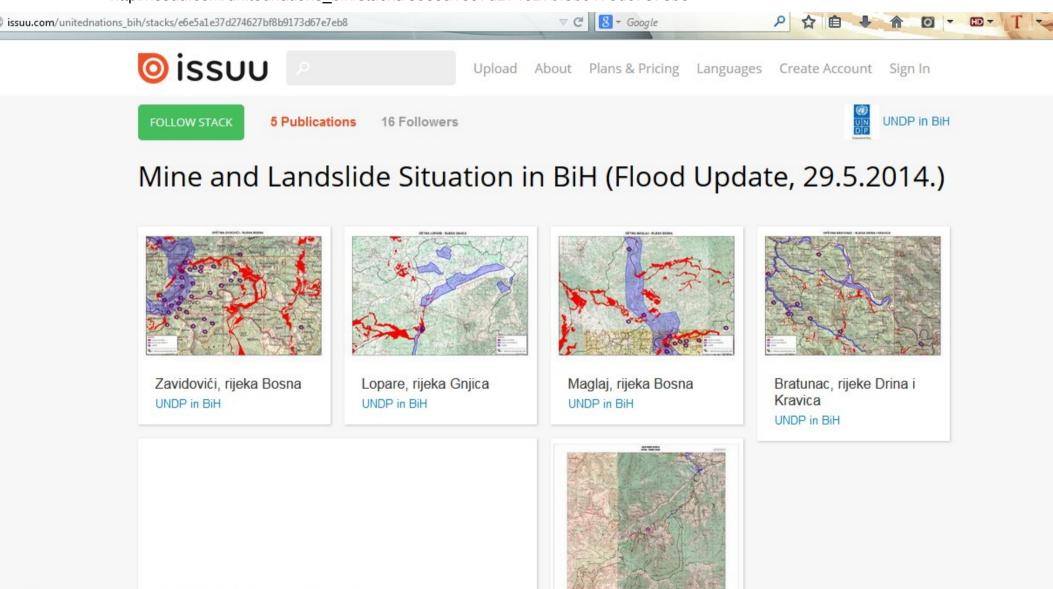






UNDP Bosnia

http://issuu.com/unitednations_bih/stacks/e6e5a1e37d274627bf8b9173d67e7eb8



Discussion.. conclusion

- Minefields/Unexploded Ordnance Areas datasets are well mapped but not publicly available
- Minefields and other military hazardous areas are tagged as Military=Danger_Area
- Military=Danger_Area not in the OSM cartography
- At what point is it appropriate to tag a minefield?

