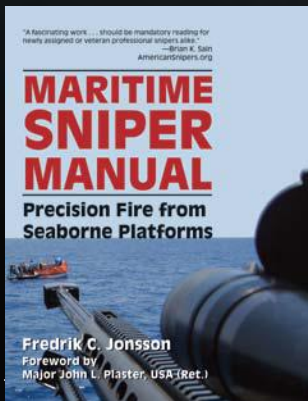


SNIPER SUPPORT AND SAFETY FOR HIGH SPEED BOAT OPERATIONS

CAPABILITIES, HTI EQUIPMENT TRAINING AND FUTURE

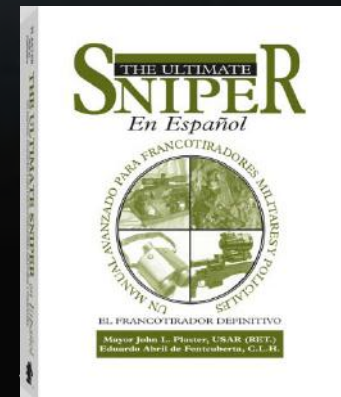
HighSpeedBoat OperationsForum



Rev2 11

*Eduardo Abril de Fontcuberta
Master Sniper Instructor
Master Diver*

*2011.50 BMG 1000 yd. World Champion
www.icsdefenses.com*



cybersniper@pobox.com



Eduardo Abril de Fontcuberta – Spanish Foreign Legion SF



The problem:

Providing safety and support for:

- VBSS and HVBSS operations
- Counter Sniper Overwatch operations
- Surgical Intercept and Disable Fire
- On-board protection of vessels
- Observation of target is limited for RHIB teams



The Solution:

Application of Sniper:

- Surgical Fire
- Support and Security of Assault teams
- Antimaterial HTI capabilities
- Observation/Overwatch
- Perimeter Safety
- Best view of target: Snipers are the team's eyes !!



Advantages:

- Extra safety for teams
- Low Collateral Damage
- Enhanced Command
- Optics advantage
- Surgical Elimination
- Disabling MP Fire / Incendiary effect
- Low Cost per engagement
- Be able to work outside RPG range



Disadvantages :



- Sniping is a VERY complex tactical role
- VERY reliant on high level of training
- VERY reliant on specialized equipment- Ballistics
- Skill level is perishable
- High cost of maritime sniper training

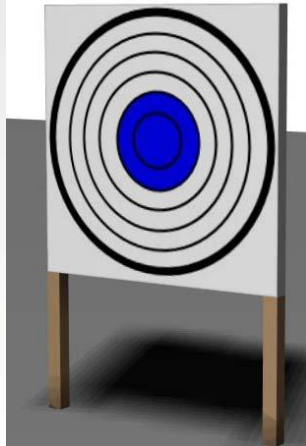
Current equipment ?



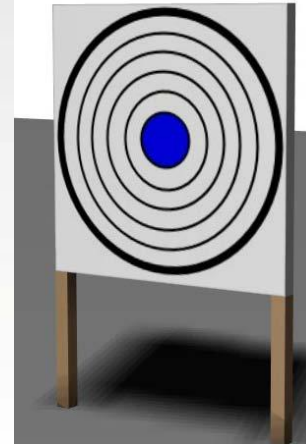
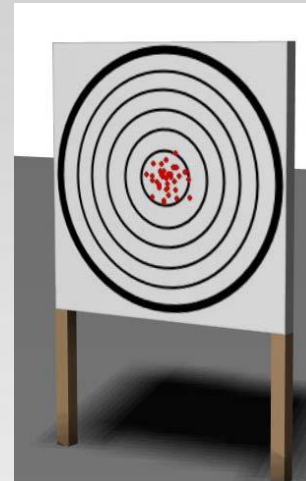
- Is it the best suited for the role?
- Is it a liability?
- Inaccurate?
- Low terminal effects?

Accuracy at 550m:

M33
BALL



How big is your target?
Can you shoot with confidence among your own team?



NM140
MK-211
MP
ROUND

Scenarios?



Will you attempt these shots with your current equipment and sniper training ?

With restricting ROES !!! And media attention !!!

Current capabilities ?

AS SNIPERS: Are we really capable of supporting operations ?
Can we operate outside RPG range?



Yes we are !

- Can we be, even better ? Yes SIR !!



03:59:40

ScanEagle

EO

ID

678



BARRETT.

Can they be enhanced ?



- New equipment
- Structured training
- Integration with Tactical Boat Crews
- Crosstraining

New equipment

- Extended Range
- More Lethal
- More Accurate
- More Rugged
- Marine Proof



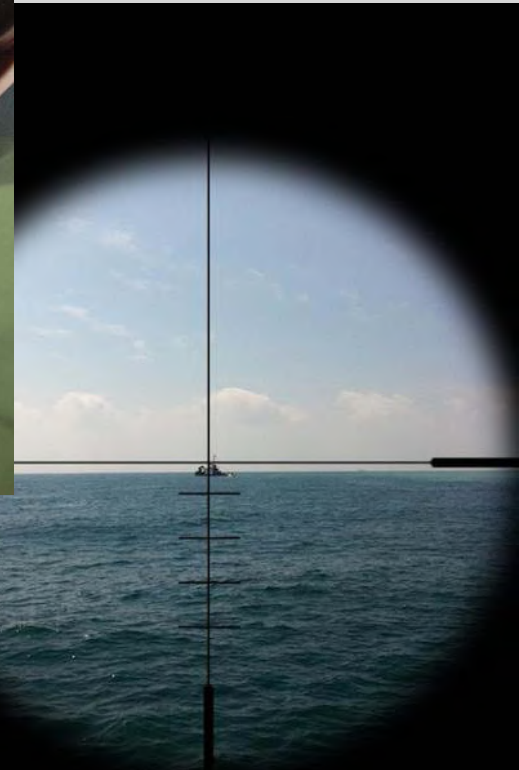
DA Table

a report by ColdBore 1.0 Desktop Edition - exterior ballistics calculations
www.patagoniaballistics.com

Dist	+6000 Feet		+7000 Feet		+8000 Feet		+9000 Feet		+10000 Feet		+11000 Feet		+12000 Feet		+13000 Feet		+14000 Feet	
yards	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD
1400	-11.2	-02.0	-11.0	-01.9	-10.8	-01.8	-10.6	-01.8	-10.4	-01.7	-10.3	-01.6	-10.1	-01.5	-09.9	-01.5	-09	-09
1500	-12.7	-02.2	-12.4	-02.1	-12.2	-02.0	-11.9	-01.9	-11.7	-01.9	-11.5	-01.8	-11.3	-01.7	-11.1	-01.6	-11	-11
1600	-14.3	-02.4	-14.0	-02.3	-13.7	-02.2	-13.5	-02.1	-13.1	-02.0	-12.9	-01.9	-12.7	-01.9	-12.4	-01.8	-12	-12
1700	-16.0	-02.7	-15.6	-02.5	-15.3	-02.4	-15.0	-02.3	-14.7	-02.2	-14.4	-02.1	-14.2	-02.0	-13.8	-01.9	-13	-13
1800	-17.9	-02.9	-17.5	-02.8	-17.1	-02.7	-16.7	-02.5	-16.3	-02.4	-16.0	-02.3	-15.7	-02.2	-15.4	-02.1	-15	-15
1900	-20.0	-03.2	-19.5	-03.0	-19.0	-02.9	-18.5	-02.7	-18.1	-02.6	-17.7	-02.5	-17.3	-02.4	-16.9	-02.3	-16	-16
2000	-22.3	-03.4	-21.7	-03.3	-21.1	-03.1	-20.6	-03.0	-20.1	-02.8	-19.6	-02.7	-19.1	-02.6	-18.6	-02.4	-18	-18
2100	-24.8	-03.7	-24.1	-03.5	-23.4	-03.4	-22.8	-03.2	-22.2	-03.1	-21.6	-02.9	-21.0	-02.8	-20.5	-02.6	-20	-20
2200	-27.6	-04.0	-26.7	-03.8	-26.0	-03.6	-25.2	-03.5	-24.5	-03.3	-23.8	-03.1	-23.2	-03.0	-22.5	-02.8	-22	-22
2300	-30.5	-04.2	-29.6	-04.1	-28.7	-03.9	-27.8	-03.7	-27.0	-03.5	-26.2	-03.4	-25.5	-03.2	-24.7	-03.0	-24	-24
2400	-33.7	-04.5	-32.7	-04.3	-31.6	-04.1	-30.6	-03.9	-29.7	-03.8	-28.8	-03.6	-27.9	-03.4	-27.1	-03.2	-26	-26
2500	-37.2	-04.8	-36.0	-04.6	-34.8	-04.4	-33.7	-04.2	-32.6	-04.0	-31.6	-03.8	-30.6	-03.6	-29.7	-03.5	-28	-28
2600	-40.8	-05.0	-39.5	-04.8	-38.2	-04.6	-36.9	-04.4	-35.7	-04.2	-34.6	-04.0	-33.5	-03.9	-32.4	-03.7	-31	-31
2700	-44.7	-05.3	-43.2	-05.1	-41.8	-04.8	-40.4	-04.7	-39.1	-04.5	-37.8	-04.3	-36.6	-04.1	-35.4	-03.9	-34	-34
2800	-48.8	-05.5	-47.2	-05.3	-45.6	-05.1	-44.1	-04.9	-42.6	-04.7	-41.2	-04.5	-39.9	-04.3	-38.6	-04.1	-37	-37



STEP 1: Better Training



- For the snipers
- For the boat crews
- For the assault teams
- For the protected GOPLAT/SHIP



Estructured Maritime-Sniper Training

New and MUCH more advanced training systems

"A fascinating work . . . should be mandatory reading for newly assigned or veteran professional snipers alike."
—Brian K. Sain
AmericanSnipers.org

MARITIME SNIPER MANUAL

Precision Fire from Seaborne Platforms

Fredrik C. Jonsson
Foreword by
Major John L. Plaster, USA (Ret.)

SPECTRE MARINE

EDUARDO ABRIL DE FONTCUBERTA

EDUARDO ABRIL DE FONTCUBERTA'S
100 SNIPER EXERCISES

FOR MILITARY AND POLICE

100⁺ SNIPER EXERCISES

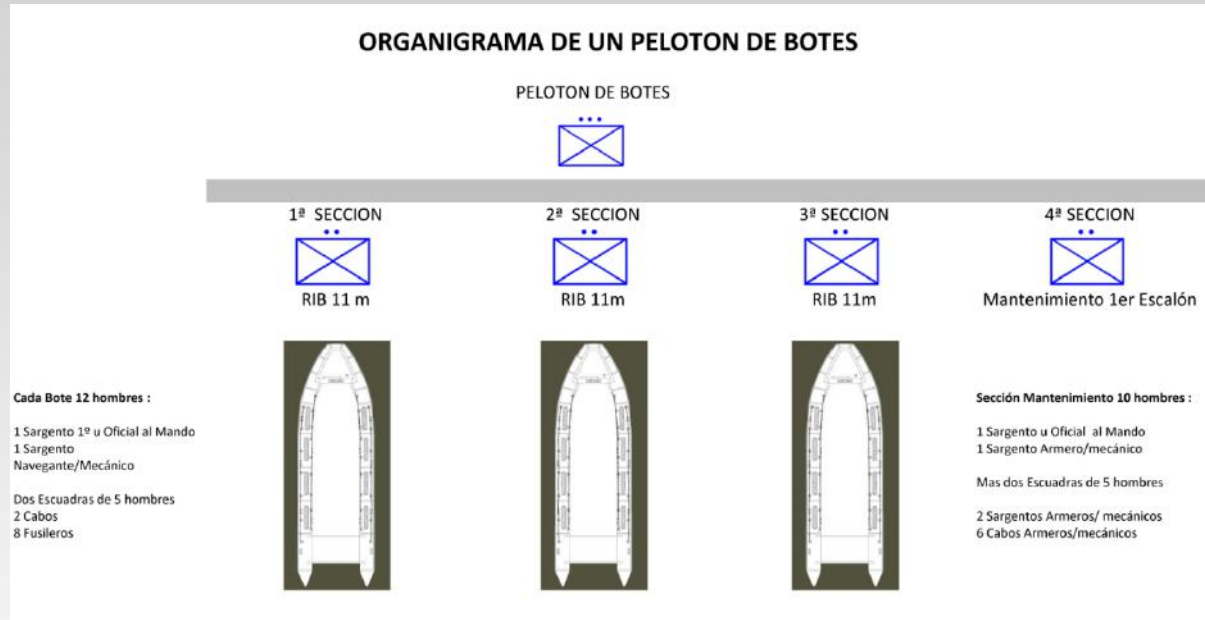
EDUARDO ABRIL DE FONTCUBERTA

FROM 25 YEARS SHIPING AND COMPETITION SUCCESS

RATED AND WITH NEED-TO-KNOW KNOWLEGE BASE



Sniper training for boat crews?



- How snipers operate: TRUST, UNDERSTAND, HELP them
- Communications – Fire coordination
- How to react when supported by sniper fire
- What are their capabilities – BALLISTIC complications

STEP 2 : Adequate Ammo

- Accurate
- Terminal Effects
- Flexible
- Can be used with current equipment issued



NAMMO RAUFOSS 12,7x99mm (cal .50 BMG)
MULTIPURPOSE AMMUNITION FAMILY

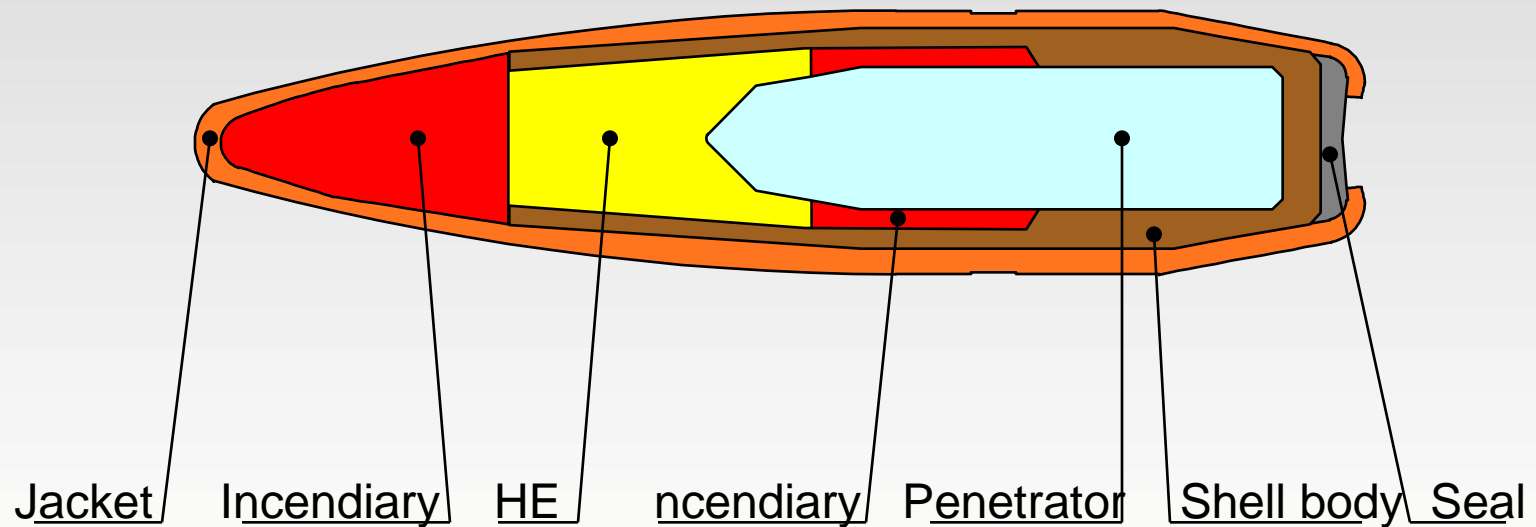
Application of the MP round:

- 12,7mm Multipurpose introduced in 1981 (Norway NAVY)
- Penetration, fragmentation, incendiary and blast effect.
- Optimised for anti helicopter and anti-ship role.
- Secondary role against light armour and area suppression.

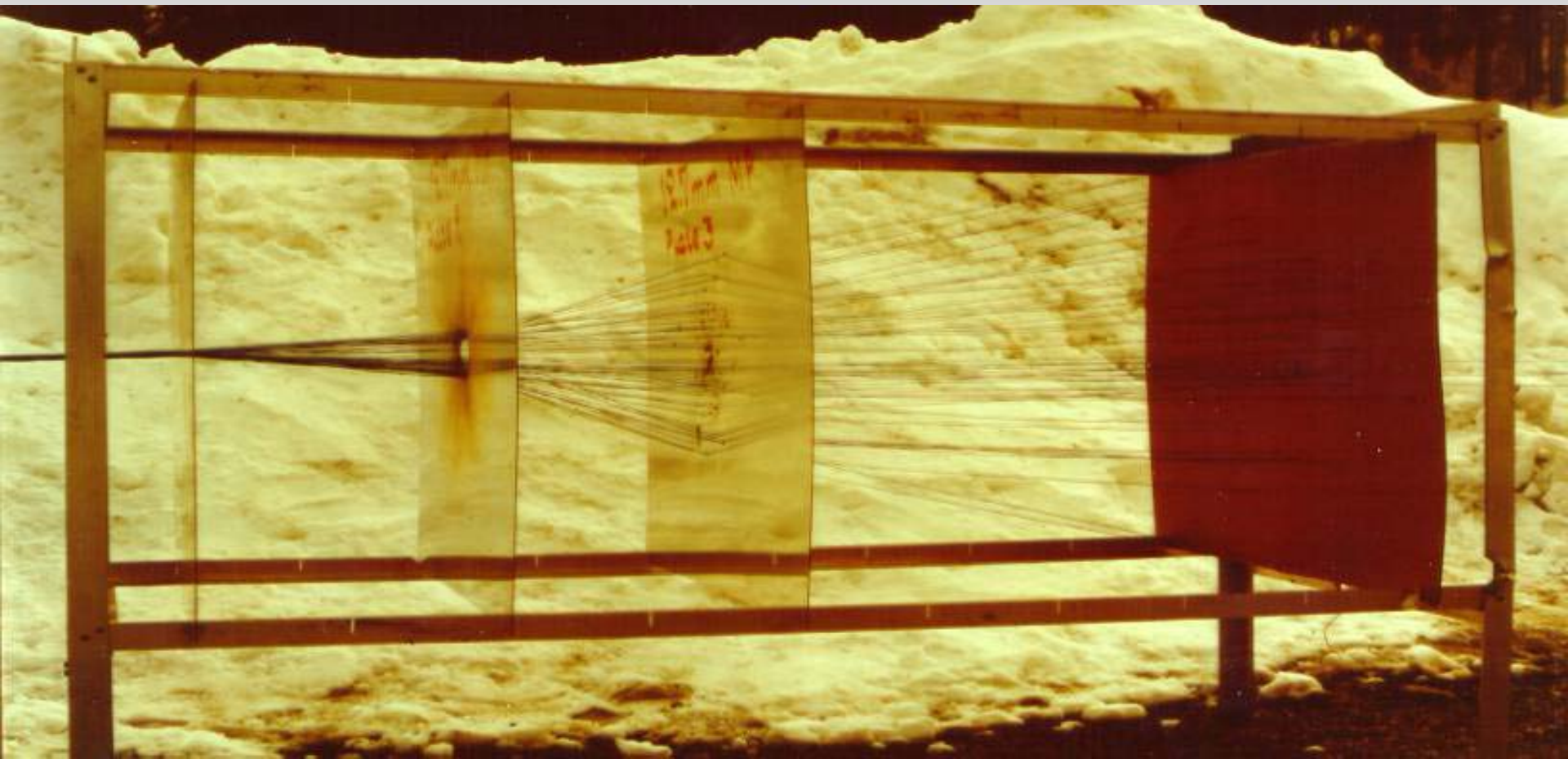


Multipurpose NM140 (MK-211)

One word: **FLEXIBILITY**



Effects in Light Airspaced Target (wires through fragment penetration holes)

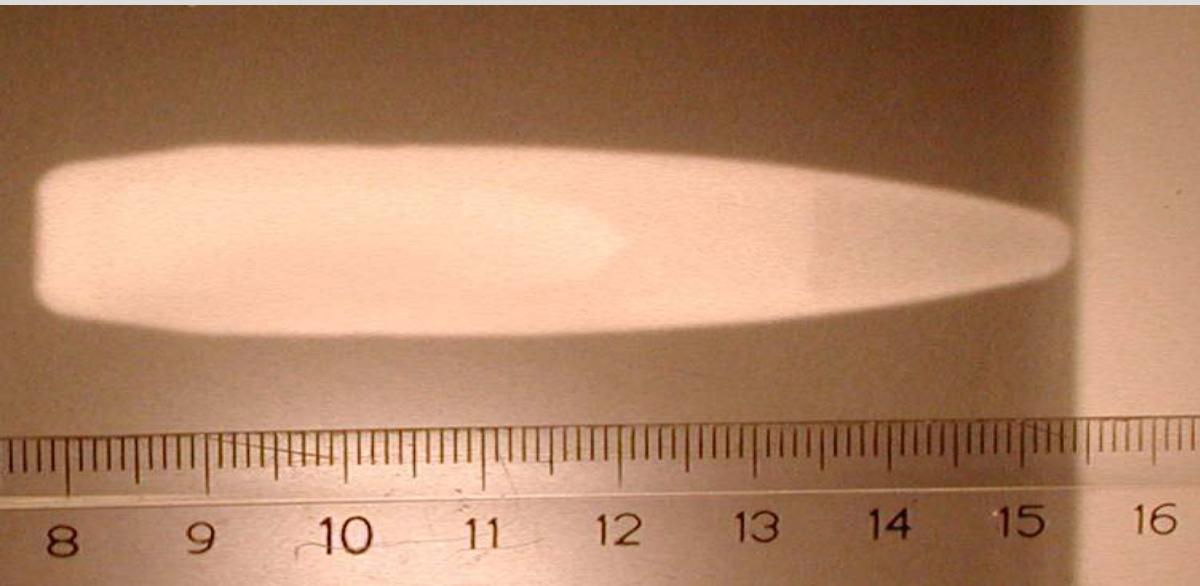


Incendiary & Suppression Effect

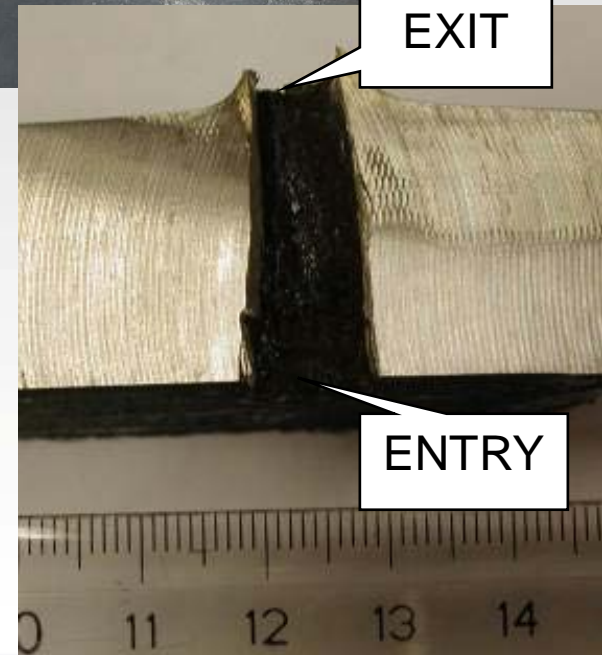
Devastating in LIGHT BOATS
with LIGHT metal sides o LIGHT armoring



Effects on Steel & Armored Boats

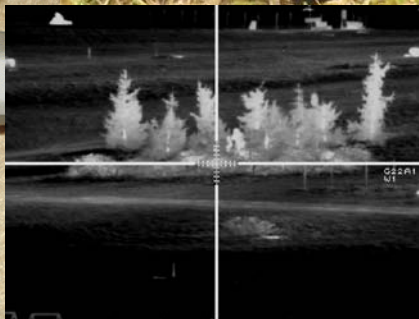


- Pirates behind barriers
- Armored targets
- Thick hull penetration



STEP 3: Better rifles and optics

- Rifles
- Optics/Ballistics
- Thermal
- Night Vision



New Equipment Knowledgebase

The new sniper rifle trends:

- Anti personnel : 338LM Barrett MRAD
 - Multicaliber long range – up to 1900m
 - Enhanced range over .308W (7.62x51NATO) **NEARLY DOUBLE !!!**
 - Same outstanding Accuracy / **Sub-MOA at any range !!!**
- Anti material : .50 BMG Barrett M107A1
 - Hard Target Interdiction – up to 1700m - **MP, Armor & Incendiary**
 - Enhanced Accuracy over M82 – M107 – **Sniper Accurate !!!!**
 - Suppressor capable
 - The NEW STANDARD
 - Marine PVD finish
 - BORS ballistic calculator



Maritime Sniper Rifles for the 21st Century



- More Accurate
- Tactically Focused – Purpose built
- Marine environment ready
- The new standard !!!
- The M107A1 .50 BMG Antimaterial rifle
- The MRAD .338LM Extreme range sniper rifle

Thank you

Any Questions?

If you have any questions about sniper training, sniper technology or any sniping related issue:

cybersniper@pobox.com

Eduardo Abril de Fontcuberta

EU and African Director

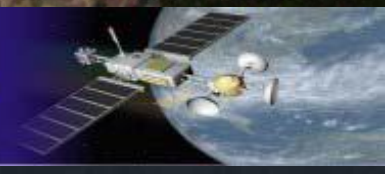
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AND WITH NEED-TO-KNOW
KNOWLEDGE BASE

What's new on Barrett rifles?

Details about the New M107A1 and MRAD models

