The Human Dimension in Precision Fires

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THE PLAN

• Less than 20 minutes from me.
  – Ask question at any time.

• I don’t presume to know what you want to hear about, so please tell me.

• I am not an expert on PGMs or their use, but I have used them ---and chosen not to.
TWO DISTINCT FIGHTS

**FALLUJAH**
- RCT X.O.
- Sparsely populated areas, but still significant civilian pop.
- Ability to employ arty, GBU's
- Transition to a conventional op from COIN
- We were on the outside trying to get in.

**RAMADI**
- Inf Bn C.O.
- Heavily populated. 250K
- My call to avoid use of PGMs.
- Remained a COIN environment.
- We were on the inside fighting to stay in.
Actions During Phase II (Stage A)
CONSIDERATIONS

• Al Fajr (Fallujah Nov 04) began with shaping ops in summer / fall 04.
  – PGMs needed to avoid civilian casualties.
• Ended in full scale assault.
  – PGMs needed to avoid friendly casualties.
• Two fights within one fight.
  – One constant thread, the requirement for PGMs.
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RAMADI
CONSIDERATIONS

• “Precision” usually means something different to the sensor and the shooter.
  – Not a complaint, “I’m just saying”
• Second and third order effects.
  – On all three levels.
• Weaponeering (pounds vs. tgt).
  – There is no “Powell Doctrine” for PGMs.
• Are you seeing what you think you see?
  – The bomb doesn’t care once cleared hot.
WRAP UP

• Just one Marine’s perspective
• PGMs have to be considered holistically
  – Design
  – Employment
• What would I like to see in a PGM?
  – Loiter time
  – Laser then scoot
  – Ability to turn off the munition in flight.
  – Ability to employ under “sensory overload”.