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# **Die Drohnenkriege: Kriegsführung der Zukunft?**



**Norbert Schepers**



## **Vom Krieg gegen den Terror zu den künftigen Roboterkriegen**

Bildquelle:Reaper-Drohne mit Hellfire-Rakete [M by Michael Hahn], via [www.theatlantic.com/technology](http://www.theatlantic.com/technology)

# Die Drohnenkriege

- Drohnen als Waffensysteme
  - Was sind Drohnen, Drohnenschläge, Drohnenkrieg als neue Form der Kriegsführung
  - Realität der Drohnenschläge
- Einsatz im globalen Krieg gegen den Terror
- Wettrüsten für den Krieg mit Robotern

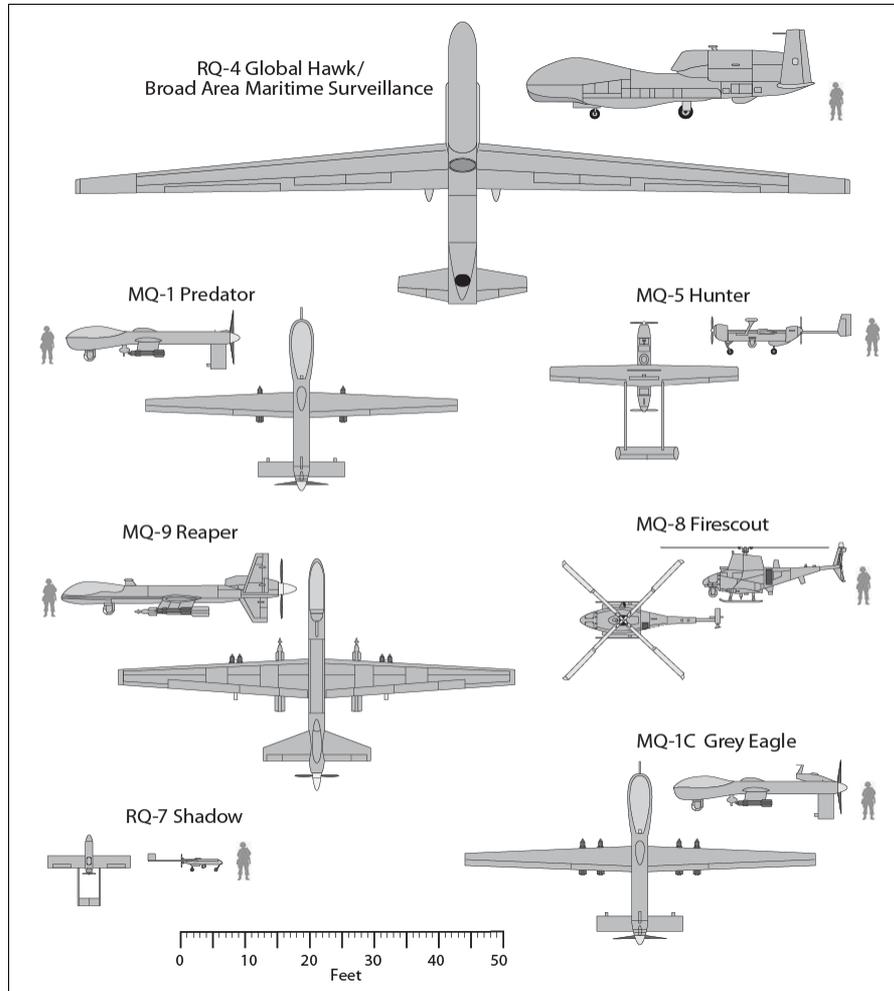
# **Drohnen als Waffensysteme**

- Unbemannt, Ferngesteuert
  - Aktuelle Modelle nicht oder kaum autonom: das sind die kommenden Modelle – Roboter
  - Asymmetrische Kriegsführung, siehe nicht-umkämpfter Luftraum
- Vorgeschichte
  - Einfache Formen seit WW1
  - Aufklärung und Überwachung (1970er -1990er)
  - Bewaffnung und massiver Einsatz seit 2001

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# **Aktuelle Drohnen / UAVs**

Figure 5. U.S. Medium-Sized and Large Unmanned Aircraft Systems



Source: Congressional Budget Office, *Policy Options for Unmanned Aircraft Systems*, Publication 4083, Washington, DC, June 2011.

Notes: All aircraft are drawn to the same scale. The silhouette figure is a 6-foot-tall soldier, also drawn to scale.

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# Predator



Bildquelle: U.S. Air Force/Lt Col Leslie Pratt, via [www.wired.com/dangerroom](http://www.wired.com/dangerroom)

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Bildquelle: General Atomics

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# Reaper



Bildquelle: U.S. Air Force/Paul Ridgeway

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Bildquelle: General Atomics

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Bildquelle: General Atomics

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# Global Hawk



Bildquelle: U.S. Air Force, via Wikimedia Commons

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# Heron



Bildquelle: ILA-boy, via Wikimedia Commons

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# Camcopter S-100



Bildquelle: MilborneOne, via Wikimedia Commons

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# DRONE SURVIVAL GUIDE



# Einzelne Aspekte

- Big Data, Death TV etc.
- Proliferation
- Europäische Rüstung
- Saubere Kriegsführung?
  - Sicht der Opfer
  - Joy Stick Stress

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# „Living under Drones“

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# „Living under Drones“



Bildquelle: <http://www.livingunderdrones.org>

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# **Drohnen im globalen Krieg gegen den Terror**

# **12 Jahre Krieg gegen den Terrorismus...**

- „Global War On Terrorism“ (GWOT)  
aka „Overseas Contingency Operations“ (OCO)
- AUMF Sept. 2001 u.a.
- Agenda Neocons: Nationbuilding, power projection, preemptive military action; Irak u.a.

# „Authorization for Use of Military Force“ 14.09.2001

Sept. 14, 2001

to authorize the use of United States Armed Forces against those responsible for the recent attacks launched against the United States.

Whereas, on September 11, 2001, acts of treacherous violence were committed against the United States and its citizens; and

Whereas, such acts render it both necessary and appropriate that the United States exercise its rights to self-defense and to protect United States citizens both at home and abroad; and

Whereas, in light of the threat to the national security and foreign policy of the United States posed by these grave acts of violence; and

Whereas, such acts continue to pose an unusual and extraordinary threat to the national security and foreign policy of the United States; and

Whereas, the President has authority under the Constitution to take action to deter and prevent acts of international terrorism against the United States: Now, therefore, be it

*Resolved by the Senate and House of Representatives of the United States of America in Congress assembled,*

Authorization for Use of Military Force, 50 USC 1541 note.

## SECTION 1. SHORT TITLE.

This joint resolution may be cited as the “Authorization for Use of Military Force”.

## SEC. 2. AUTHORIZATION FOR USE OF UNITED STATES ARMED FORCES.

President.

(a) IN GENERAL.—That the President is authorized to use all necessary and appropriate force against those nations, organizations, or persons he determines planned, authorized, committed, or aided the terrorist attacks that occurred on September 11, 2001, or harbored such organizations or persons, in order to prevent

# 12 Jahre schmutziger Krieg

- Ziel: Das Aufspüren und Ausschalten («capture or kill») der «Feinde Amerikas».
- Instrumente u.a. Covert War, Black Ops & Special Forces, Drohnenschläge, Private Contractors & Mercenary Armies, Global Rendition Program, Global Surveillance.
- Neuordnung von Geheimdienstaktivitäten und Spezialoperation, siehe bes. JSOC.

# **JSOC: Joint Special Operation Command**



- Seit 1980 Zusammenfassung der US-Spezialkommandos, v.a.:
  - Delta Force
  - DEVGRU (United States Naval Special Warfare Development Group; ehemals Seal Team 6)
  - Air Force 24th Special Tactics Squadron
  - Army Intelligence Support Activity
- Zentrale Rolle im Anti-Terror-Krieg, «capture or kill» Missionen

# Der endlose Krieg

- Stationen u.a.
  - Afghanistan 2001
  - Irak 2003
  - Afghanistan, Pakistan u.s.w.
- Verlauf des Anti-Terror-Krieges erklärt z.T. die parallelen Drohnenprogramme von CIA und JSOC
- Enger Zusammenhang zwischen globaler Überwachung und Targeted Killing

# **Begriffe der Debatte**

- Executive actions
- Extrajudicial killing
- Justifiable homicide
- Targeted killing
- Signature strikes
- Disposition Matrix

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# Künftige Drohnen



Bildquelle: U.S. Air Force/Rob Densmore, via Wikimedia Commons

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# **US Navy: X-47B UCAS**

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# **US Navy: X-47B UCAS**



Bildquelle: U.S. Navy/Andrew Johnson

# UK: Taranis

Taranis is an Unmanned Combat Air System (UCAS) demonstrator. Through test flights, scheduled for 2013, Taranis will help provide the UK MOD with experimental evidence that will help to shape the future mix of manned and unmanned fast-jet aircraft.



**KEY ROLES**

Taranis will demonstrate the ability of a UCAS to: fend off hostile attack; deploy weapons deep in enemy territory and relay intelligence information.

Additionally, both the shape and internal technologies help Taranis to remain undetected by enemies.

**FIELD TEST**

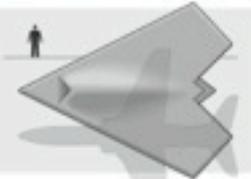
1. Taranis would reach the search area via a pre-programmed flight path in the form of a three-dimensional corridor in the sky. Intelligence would be relayed to mission command.
2. When Taranis identifies a target it would be verified by mission command.
3. On the authority of mission command, Taranis would carry out a simulated firing and then return to base via the programmed flight path.

**MISSION COMMAND**

At all times, Taranis will be under the control of a highly-trained ground crew. The Mission Commander will both verify targets and authorise simulated weapons release.

**SCALE**

Taranis is about the same size as a BAE Systems Hawk (shown in silhouette), which is 12.5m in length and has a wingspan of 10m.



**SOURCE: BAE Systems**

NOTE: These illustrations are schematic and do not represent 100% accurate depictions of the subject matter.



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# Taranis (UK)



# Neuron (F)



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# Neuron (F)



Bildquelle: Alenia Aermacchi

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# Barracuda (D)



Bildquelle: Jean-Patrick Donzey, via Wikimedia Commons

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# Talarion (D)



Bildquelle: Tangopaso, via Wikimedia Commons

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# Rise of the Machines?

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# Rise of the Machines?



Bildquelle: Warner Bros. Pictures

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**Ich bedanke mich für die  
Aufmerksamkeit und freue  
mich auf die Debatte...**

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