



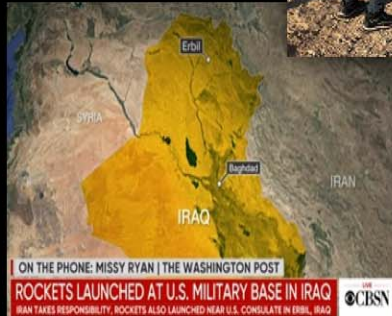
Department of the Air Force

Integrity - Service - Excellence

Standing up the U.S. Space Force and Legal Issues in Space

The Honorable Thomas E. Ayres
Air Force General Counsel

Integrity - Service - Excellence



“U.S. early warning systems detected the incoming ballistic missiles well in advance, providing U.S. & coalition forces adequate time to take appropriate force protection measures.”



F-15E, F-16, & F-22 Aircraft



F-15E Strike Eagle



F-16 Fighting Falcon



F-22 Raptor

Integrity - Service - Excellence



F-35 Lightning II & Chinese J-20



China's J-31

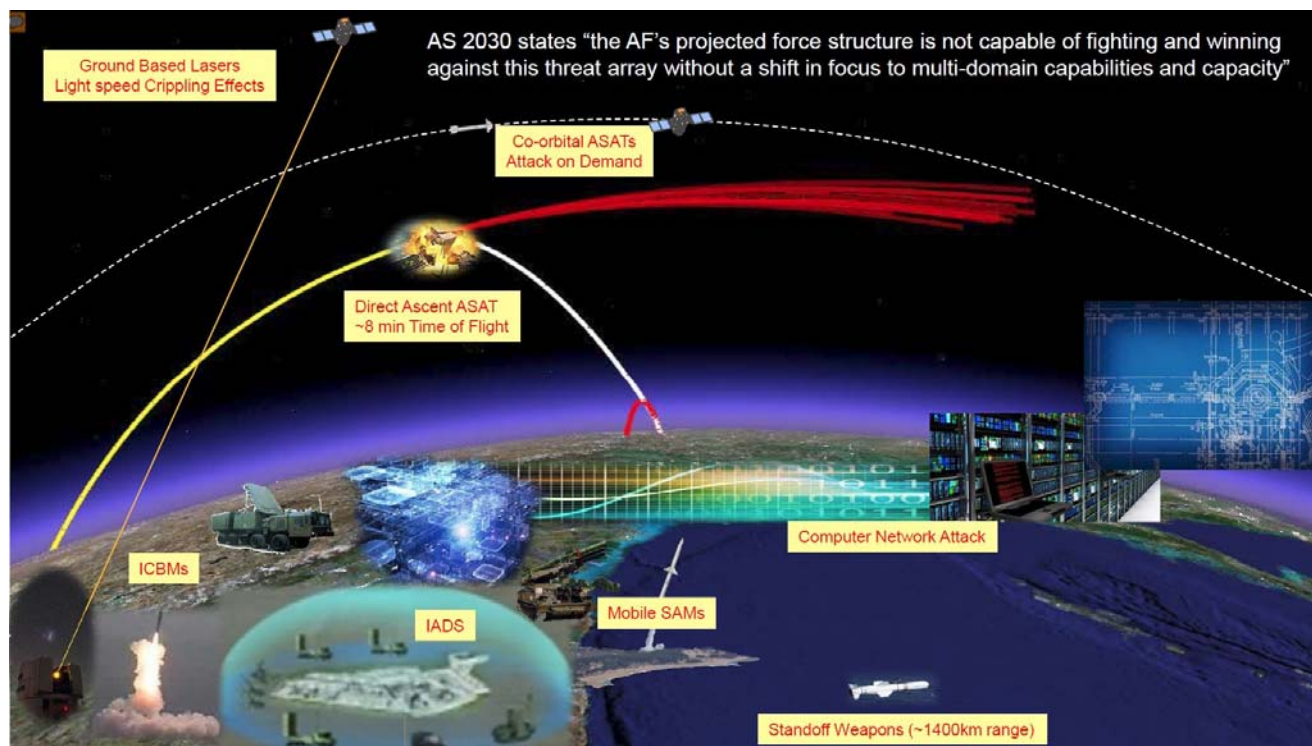


U.S F-35

Integrity - Service - Excellence



Multi-Domain Operations



Integrity - Service - Excellence

UNITED STATES SPACE FORCE

GPS



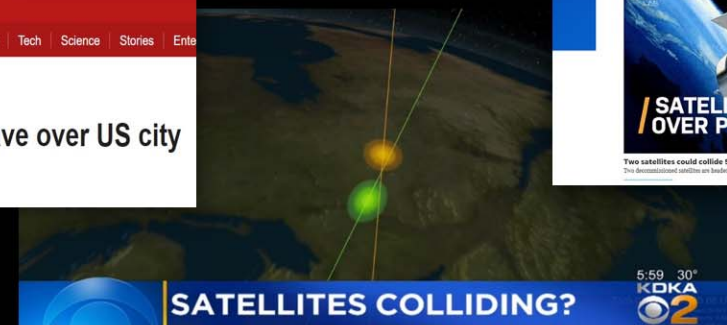
...GPS is the basis for all kinds of technologies. It powers our Joint Forces, financial transactions, cell phone calls & emergency medical services...

UNITED STATES SPACE FORCE

Space Domain Awareness



US & Canada
Two satellites in close shave over US city of Pittsburgh



USSF actively tracks more than 26,000 objects on orbit, to protect more than 2,400 active satellites, & actively coordinates with critical interagency & coalition partners, including NASA, to support space flight safety

UNITED STATES SPACE FORCE

ASAT Weapons

THE ECONOMIC TIMES

China developing counter-space capabilities even as India test-fires ASAT

BY SHALINIYA KARANDIB GURUNG, ET BUREAU | MAR 28, 2019, 09:07 AM IST

INDIA'S ANTI-SATELLITE (ASAT) MISSILE



SPACE NEWS

U.S. intelligence: Russia and China will have 'operational' anti-satellite weapons in a few years

by Sandra Ervin — February 14, 2018

The New York Times

China Tests Anti-Satellite Weapon, Unnerving U.S.

By William J. Broad and David E. Sanger

Jan. 18, 2007

THE
NATIONAL
INTEREST

Published on The National Interest (<https://nationalinterest.org>)

Home > Russia's MiG-31 Might Have a New Mission: Kill American Satellites

Russia's MiG-31 Might Have a New Mission: Kill American Satellites



"We do not seek a conflict in space. However, we must maintain a position of strength and develop a credible warfighting capability in order to deter conflict and maintain a full range of options to ensure our national security."

- General John "Jay" Raymond, CSO, 4 Mar 20

UNITED STATES SPACE FORCE

Cosmos 2542

DAILY BEAST
Dig Deeper
CHEAT SHEET POLITICS ENTERTAINMENT WORLD NEWS HALF FULL CULTURE U.S. NEWS INNOVATION SCIENCE

Why Is This Mystery Russian Spacecraft Suddenly Stalking a Secret U.S. Spy Satellite?

[CREEPER, MUCH?]

Two weeks ago, Cosmos 2542 started tailing a secret Pentagon space reconnaissance telescope. Analysts wonder if it's some kind of preparation for an attack.

David Axe | Updated Jan. 31, 2020 6:38PM ET / Published Jan. 31, 2020 9:25AM ET

THE DRIVE THE WAR ZONE MOTORCYCLES REVIEWS TWZ NEWSLETTER SIGNUP f t i r

THE WAR ZONE

A Russian "Inspector" Spacecraft Now Appears To Be Shadowing An American Spy Satellite

The Russian satellite recently moved into a new position where it has an especially good view of a US KH-11 spy satellite.

POPULAR MECHANICS SUBSCRIBE SIGN IN

Why Is This Russian Satellite Stalking a U.S. Spy Satellite in Orbit?

TIME

POLITICS • WHITE HOUSE

Exclusive: Strange Russian Spacecraft Shadowing U.S. Spy Satellite, General Says

THE VERGE

SCIENCE \ SPACE \

TECH - REVIEWS - SCIENCE - CREATORS - ENTERTAINMENT - VIDEO MORE -

A Russian satellite seems to be tailing a US spy satellite in Earth orbit

The two satellites are mighty close to one another
By Loren Grush | @lorengrush | Jan 31, 2020, 4:24pm EST

"It's clear that Russia is developing on-orbit capabilities that seek to exploit our reliance on space-based systems that fuel our American way of life."
- General John W. "Jay" Raymond, CSO, 10 Feb 2020



The Constitution of the United States of America

Article I, Section § 8. The Congress shall have Power...

To raise and support Armies, but no Appropriation of Money to that Use shall be for a longer Term than two Years;

To provide and maintain a Navy;

To make Rules for the Government and Regulation of the land and naval Forces;

To provide for calling forth the Militia to execute the Laws of the Union, suppress Insurrections and repel Invasions;

To provide for organizing, arming, and disciplining, the Militia...



A Military Service for a New Domain

- Synchronize & Integrate DOTMLPF-P
 - Doctrine: the way we fight
 - Organization: how we organize to fight (i.e., divisions, air wings)
 - Training: how we prepare to fight tactically
 - Materiel: all the “stuff” necessary to equip the forces
 - Leadership and education: how we prepare leaders
 - Personnel: availability of qualified people for operations
 - Facilities: real property (i.e., installations and industrial facilities)
 - Policy: DoD, interagency, or international policy that impacts the other seven non-materiel elements.

- Develop capabilities & personnel

- Domain specific expertise & culture

- Proponent/advocate for space power



- USSOCOM Model: A COCOM with service-like authority
 - Assistant Secretary of Defense for Special Operations/Low-Intensity Conflict (ASD SO/LIC)
- Professional Corps Model (i.e., JAG Corps, Medical Corps)
- USMC Model (with variants)
- Coast Guard Model
- Department Model
- Complicating Factors
 - Reserve/Guard Components
 - Service Space systems personnel
 - NRO and DOD space systems personnel
 - Other government agencies
 - Other roles & missions





What We Proposed : Marine Corps Model Variant

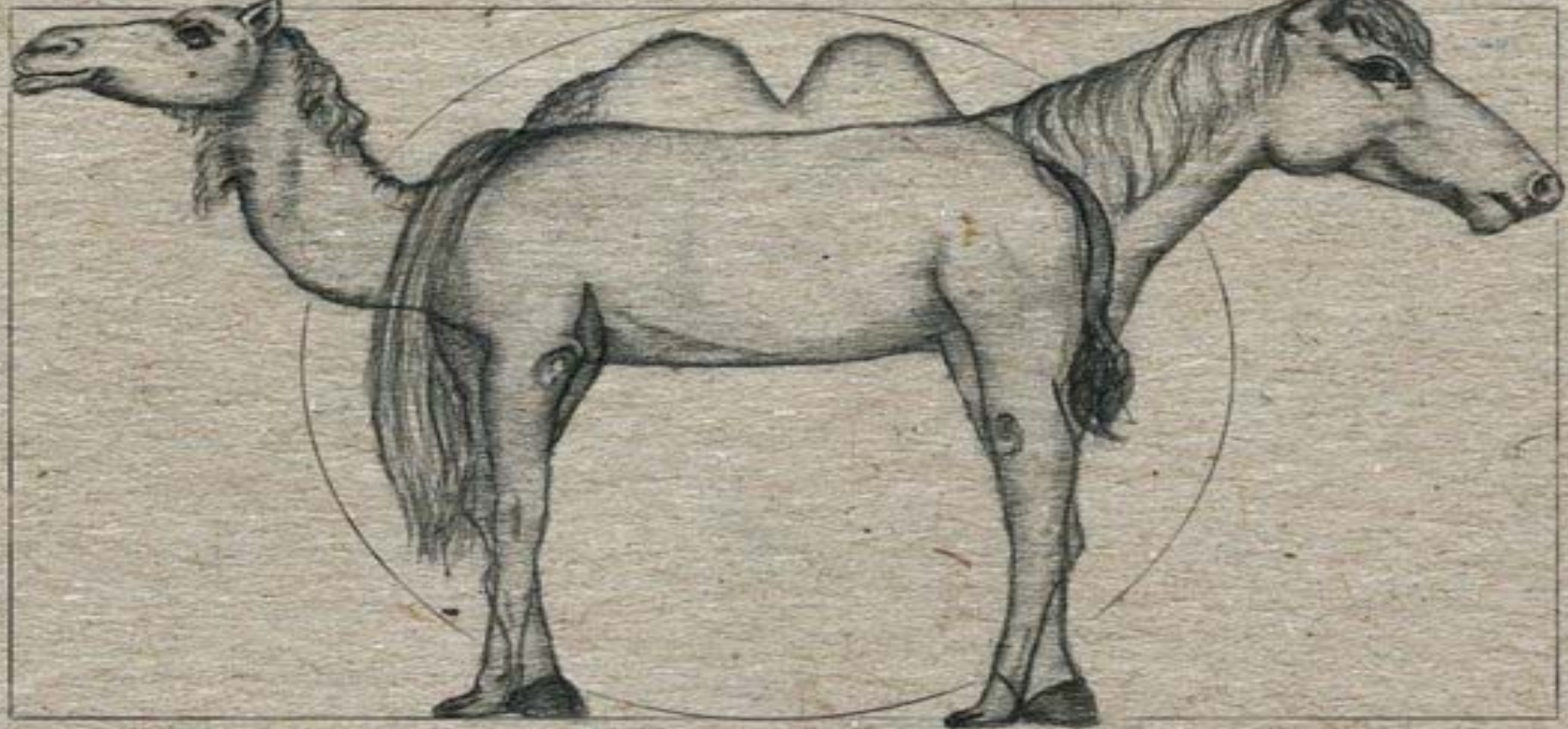
- Created Service
 - Uniform/Civilian/Reserve/Guard
- Created Chief of Space Operations (CSO) and Space
- CSO member of Joint Chiefs of Staff
- Under Secretary for Space
- Transfer Authorities for AF/Army/Navy
- Civilian Personnel Authorities



“In order for the U.S. to be competitive on a military level, the innovation has to overcome a gigantic gap in economic output. In the absence of radical innovation, the U.S. will be militarily second.”
- Elon Musk, 28 Feb 20

1.

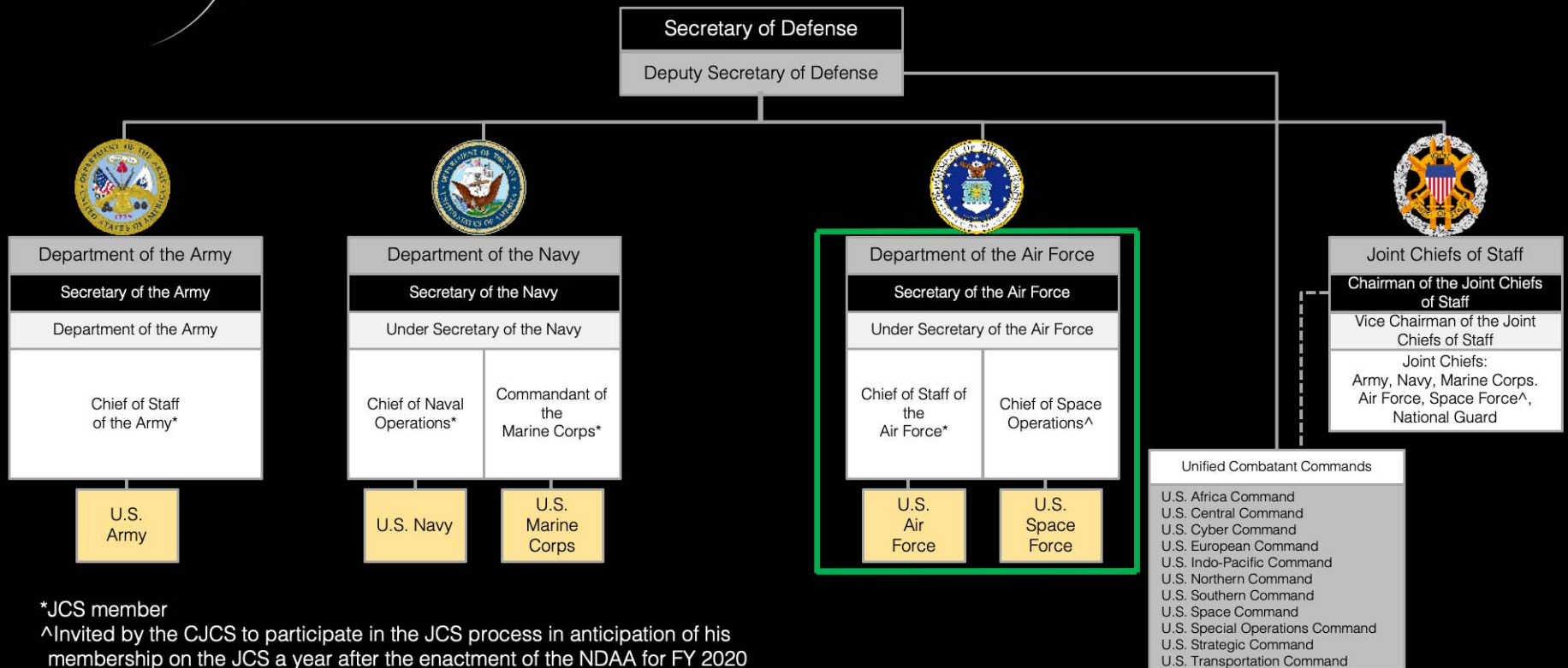
2.



A Camel (1.) is a Horse (2.) designed by a Committee

UNITED STATES SPACE FORCE

Alignment



*JCS member

^Invited by the CJCS to participate in the JCS process in anticipation of his membership on the JCS a year after the enactment of the NDAA for FY 2020



What Congress Gave Us

- Created Service
 - ~~Uniform/Civilian/Reserve/Guard~~
- Created Chief of Space Operations (~~CSO~~) and ~~Space Staff~~
- CSO member of Joint Chiefs of Staff
- ~~Under Secretary for Space~~ DOD: Assistant Secretary of Defense for Space Policy
AF: SAF/SP → Assistant Secretary for Space Acquisition and Integration
- ~~Transfer Authorities for AF/Army/Navy~~ No impact on installations
- ~~Civilian Personnel Authorities~~ Space Acquisition Counsel



Functions and Duties

➤ 2020 NDAA, § 952

(a) Redesignation.--The Air Force Space Command is hereby redesignated as the United States Space Force (USSF).

(b) (4), amending § 9081 “The United States Space Force”

(c) **Functions**.--The Space Force shall be organized, trained, and equipped to provide--

- (1) freedom of operation for the United States in, from, and to space; and
- (2) prompt and sustained space operations.

(d) **Duties**.--It shall be the duty of the Space Force to--

- (1) protect the interests of the United States in space;
- (2) deter aggression in, from, and to space; and
- (3) conduct space operations.





What's Next

- Technical and conforming amendments
- AcqDemo for Civilians
- Transfer authorities for AF/Army/Navy
- Transfer authorities for Defense Agencies
- Guard and Reserve
- Streamline Acquisition Authorities





QUESTIONS