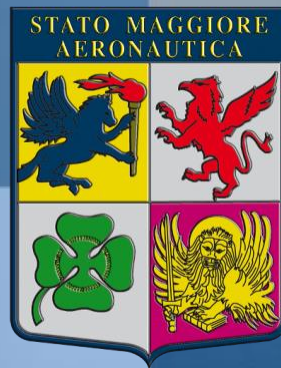


3° Department «Aerospace Plans and Policy»



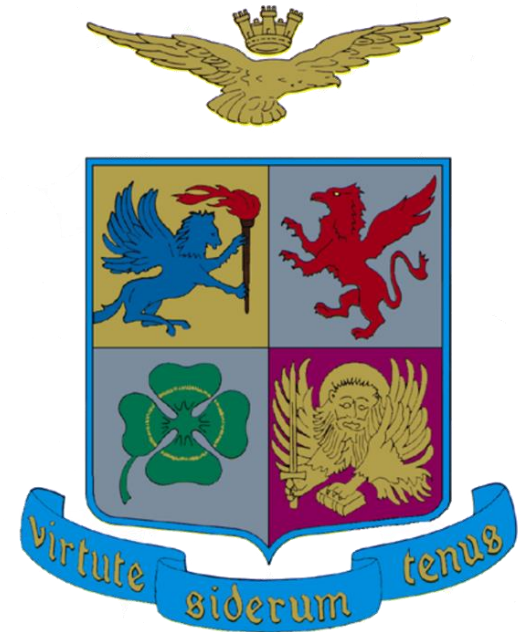
SPACE WEATHER «ITAF Perspective»

AGENDA



Air Staff 3° Dep.

- ✓ **Duties & Responsibilities**
- ✓ **Mission priorities**
- ✓ **Space implications**
- ✓ **Space WX approach**
- ✓ **Conclusion**



Italian Air Force

Armed Forces Duties



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**defend national interest
Air-space integrity**

**safeguard collective NATO-EU
interests**

**contribute to international stability
&
crises' management**

contribute to homeland security and disaster relief

Italian Air Force

MISSION PRIORITIES



SMA 3° Reparto



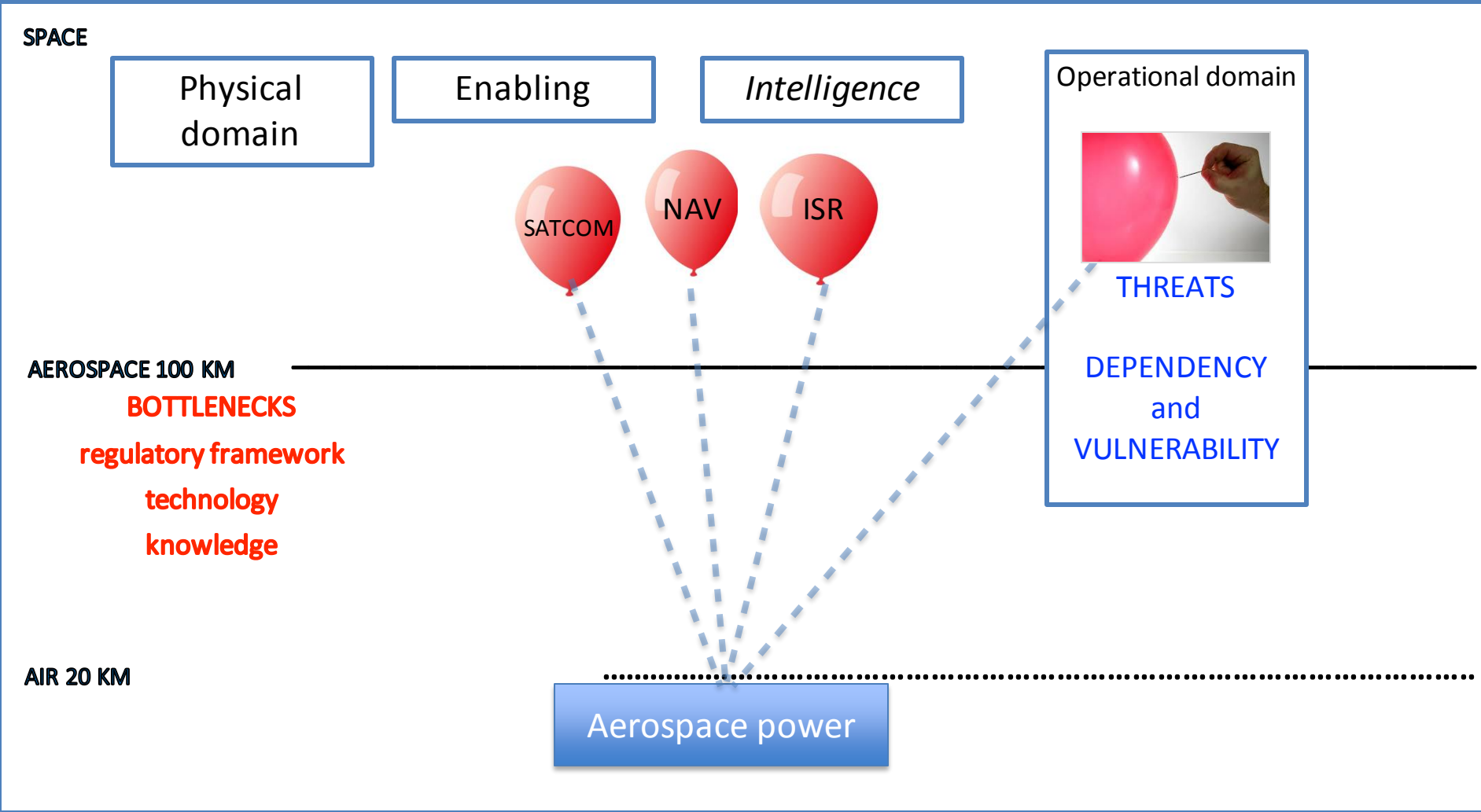
Other Standing Missions



SPACE IMPLICATIONS



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SPACE IMPLICATIONS



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- **ITAF is a user and Force Provider**
- **ITAF is the major stakeholder in MoD**
- **ITAF is part of National Space Endeavor with many P&P partners, academia other ministries**
- **ASI is the pivotal reference for Space**
- **Space governance culminates in the Premier Head Office**

1. Support and protect current and future enabling capabilities (observation, SATCOM, PNT) - access to space

2. Focus on emerging opportunities in

- **Suborbital**
- **Space medicine**
- **SST**
- **Space WX**

Italian Air Force

ITAF & Space Weather



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- mainly occurs due to the Sun's emissions
- can affect the Earth's space environment
- can hinder space and AF Operational Capabilities (threat as cyber & collisions)
- space planner experience in ISAF
- provide space WX limited products to JOHQ and IT AOC



World
Meteorological
Organization
Weather • Climate • Water

MSG - NRF AREA - RGB NATURAL COLOR 07/10/2014 12:30 U.T.C.

http://prometeo.meteoam.it/modules.php?name=viewerProdotti_xnrf2

Prometeo NRF Italian Air Force Meteorological Service

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Type of Bulletins: FXDL81-SPACE WEATHER ETGX LN

CCCC TLC Center: ETGX

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Date Time End: 2014-10-07 16:41

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Msg FXDL81 ---
>> FXDL81 ETGX 070400
DAILY GEOPHYSICAL REPORT ISSUED AT 070402Z OCT 14
1. FORECAST FOR : 07 OCT 14
1.1.GEOMAGNETIC ACT.: QUIET
1.2.SOLAR ACTIVITY : LOW
1.3.SOLAR INDICES : 10CM=125 R12(OCT 14)=71
1.4.AK 07-09. : 7 7 7
1.5.MAG-STORM PROBABILITY IN PERCENT FOR 07.-09.
MINOR AK>=30 : 5 5 5
MAJOR AK>=50 : 1 1 1
2. SUMMARY FOR : 06 OCT 14
2.1.GEOMAGNETIC ACT.: UNSETTLED
2.2.SOLAR ACTIVITY : VERY LOW
2.3.GEOPHYS INDICES : AK=8 10CM=130 R=60
2.4.K-INDICES : 3 2 1 1 0 2 4
3. COMMENT:

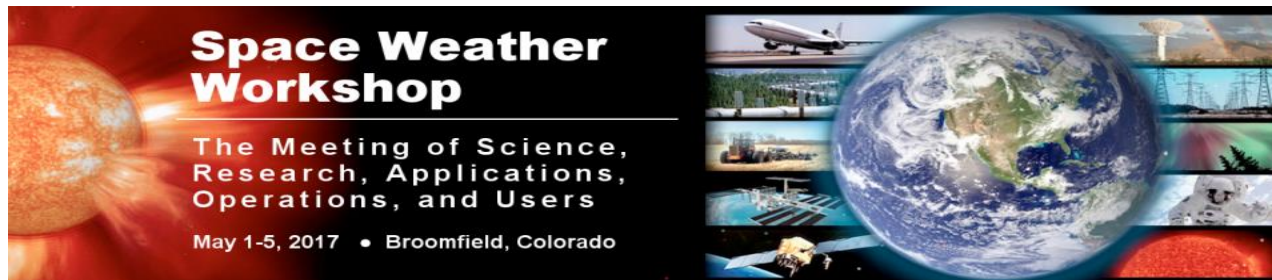
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REFERENCES



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- **FOUR-YEAR PLAN FOR WMO ACTIVITIES (2016-2019) - activities**
- **CONOPS FOR SPACE WEATHER INFORMATION IN SUPPORT OF INTERNATIONAL AIR NAVIGATION (2013) - requirements**
- **UPCOMING AMENDMENT (nr. 78) ANNEX 3 (ICAO) - will integrate standard wx with *Space Weather***



ITAF Personnel & SpWx



Air Staff 3° Dep.



- **Engineers, Physicists and Specialists**
- **“Introduction to Space Weather” Course at Offutt AFB**
- **“Annual Space Weather Workshop” at SWPC-NOAA**
- **Build know how**
- **Establish a cadre of experts**
- **Operate**

Italian Air Force

Conclusion



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The Italian Air Force, as part of a National system, is providing, with qualified personnel, competencies and knowledge, Space Weather forecast for military users

Italian Air Force

STATO MAGGIORE
AERONAUTICA



3° Department
«Aerospace Plans and Policy»