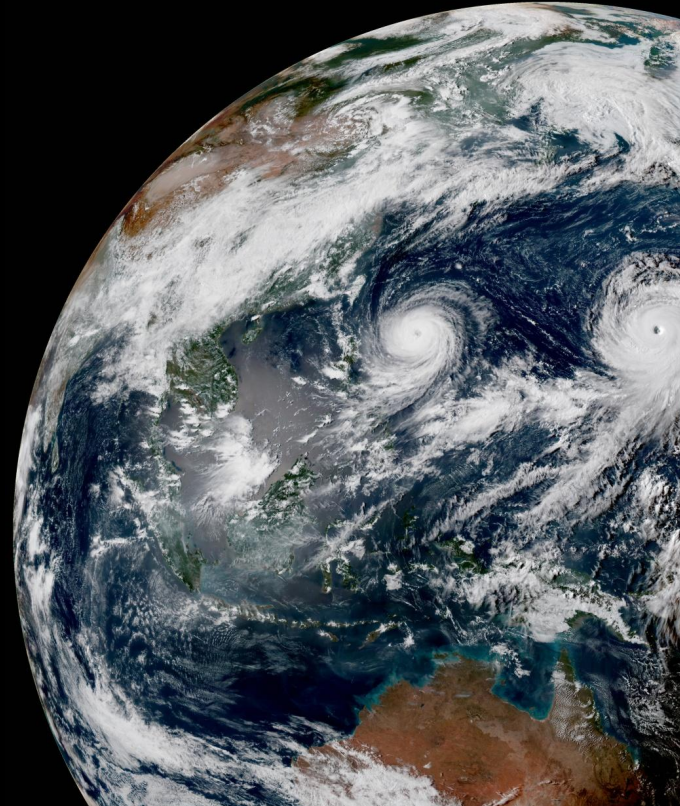


U.S. AIR FORCE

# JEDI: Methodology for Selecting ecbuild/CMake Optional Packages

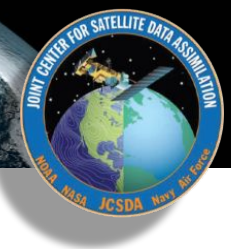


# Goals



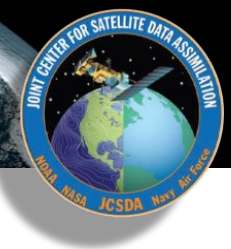
- Make option selection consistent, easy and predictable
  - Consistent syntax
  - Consistent default setting
  - Consistent action
- Support testing with different combinations of option selection
  - Too many combinations to test them all
  - Start with:
    - All options disabled
    - All options enabled

# Ecbuild/CMake controls



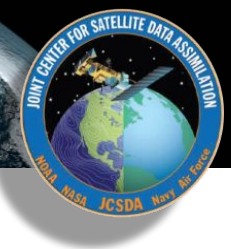
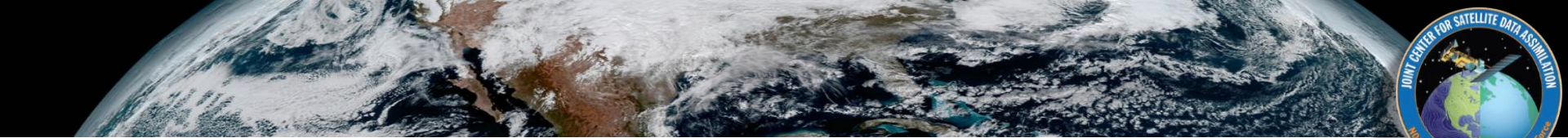
- **ENABLE\_<pkg>**
  - <pkg> is in upper case
  - OFF by default
- **When ENABLE\_<pkg> == ON**
  - It is required that <pkg> is found
  - Associated find\_package commands use the REQUIRED option

# Example



- Optional package for IODA is ODC
  - ENABLE\_ODC
- CMakeLists.txt entry

```
option( ENABLE_ODC "ODC support" OFF )
if (ENABLE_ODC)
    find_package( odc 1.0.2 REQUIRED )
else()
    odc_FOUND = FALSE
endif()
```



Questions