

# O2R and R2O

## 1. R2O

- Basic understanding leading to “societal benefits”
  - page-1 (para 5)
- Applied Research – Research questions motivated from Operations
  - page 2 (para 1)
  - E.g., CSTAR, Visiting Scientists/students at NCEP, ...

## 2. O2R:

- A (preferred) approach for (accelerated) R2O
- Using operational models/tools/infrastructure to conduct applied research
- Research advancements directly incorporated into operational capability

# O2R/R2O Approaches/Challenges

## 1. Community modeling

- Operational Model <-> Research Model
- Open source, shared community development/testing/evaluation
- e.g., CCSM/CESM, WRF, HyCOM

## 2. Issues/Challenges

- Infrastructure support
- Governance and organization

## 3. Interagency coordination/collaboration

- Mission and Priorities (e.g., common “pain”, or directed by OMB/OSTP)
- Leveraging capability (e.g., NOPP/HyCOM)

## 4. Space Wx R2O/O2R gaps

- “Very few issues \$\$\$ cannot solve”
- R2O is a “valley of death” – dedicated resource needed