

WRF for Hurricanes

Status report by the Developmental Testbed Center

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Developmental Testbed Center

HRD Modeling Meeting, August 19 2010

Goal

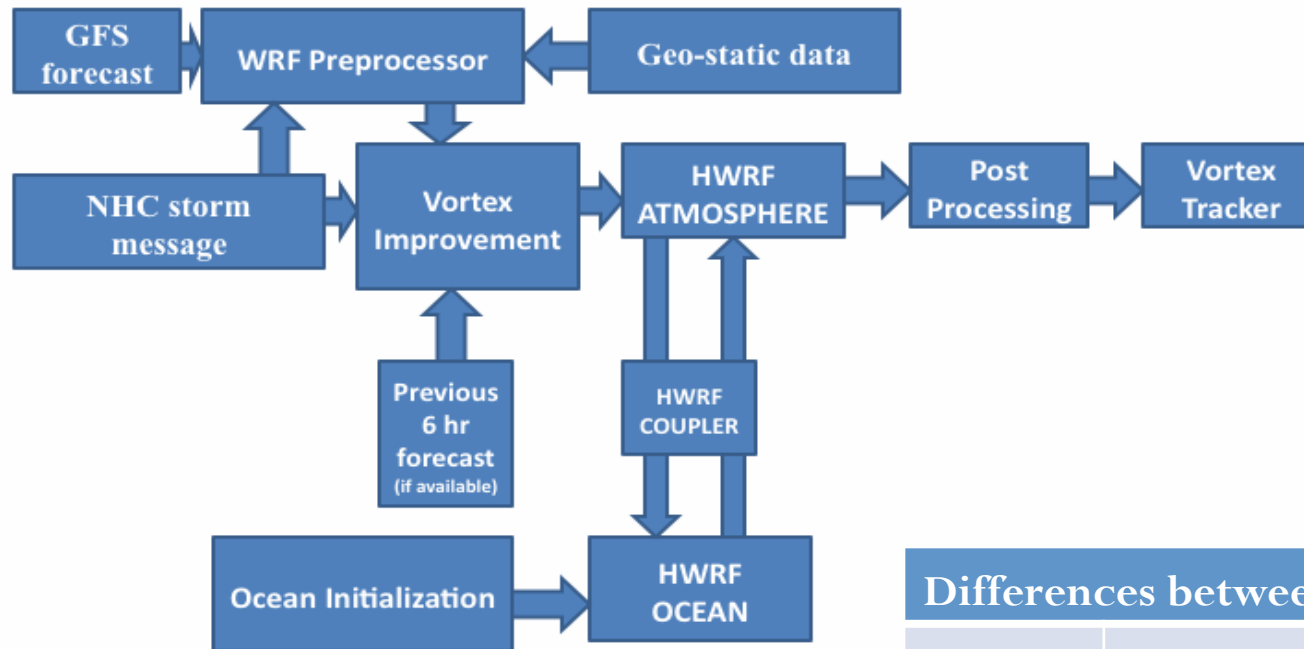
Support HFIP goal of improving hurricane forecast skill by facilitating transition of new developments onto operations

Method

- Make HWRF model available and supported to community
- Add new developments to community code
- Create HWRF testing infrastructure in HFIP computer
- Perform testing and evaluation of HWRF in support of EMC and HFIP

Community HWRF released in March 2010:

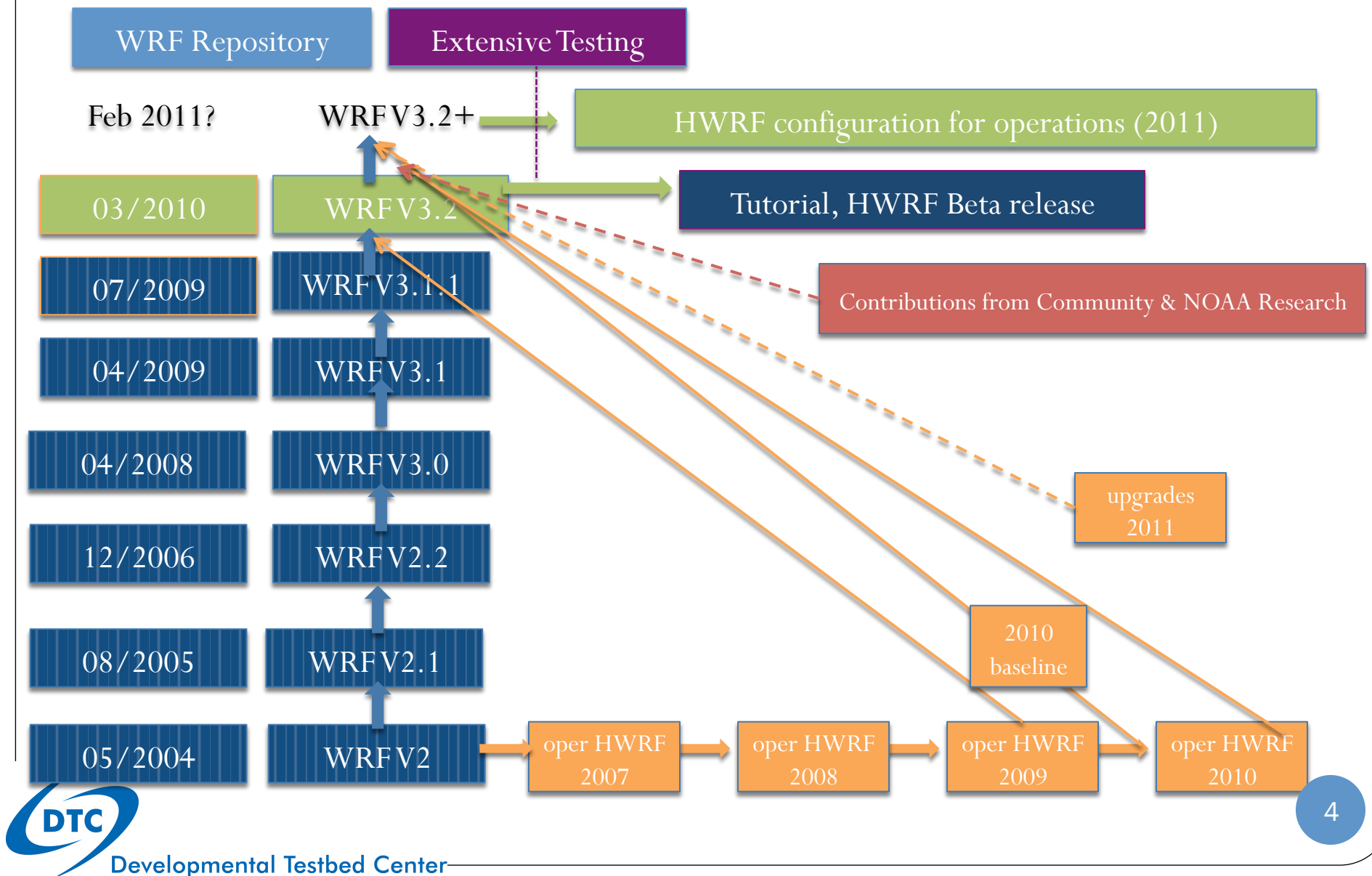
a coupled atmospheric-ocean prediction system



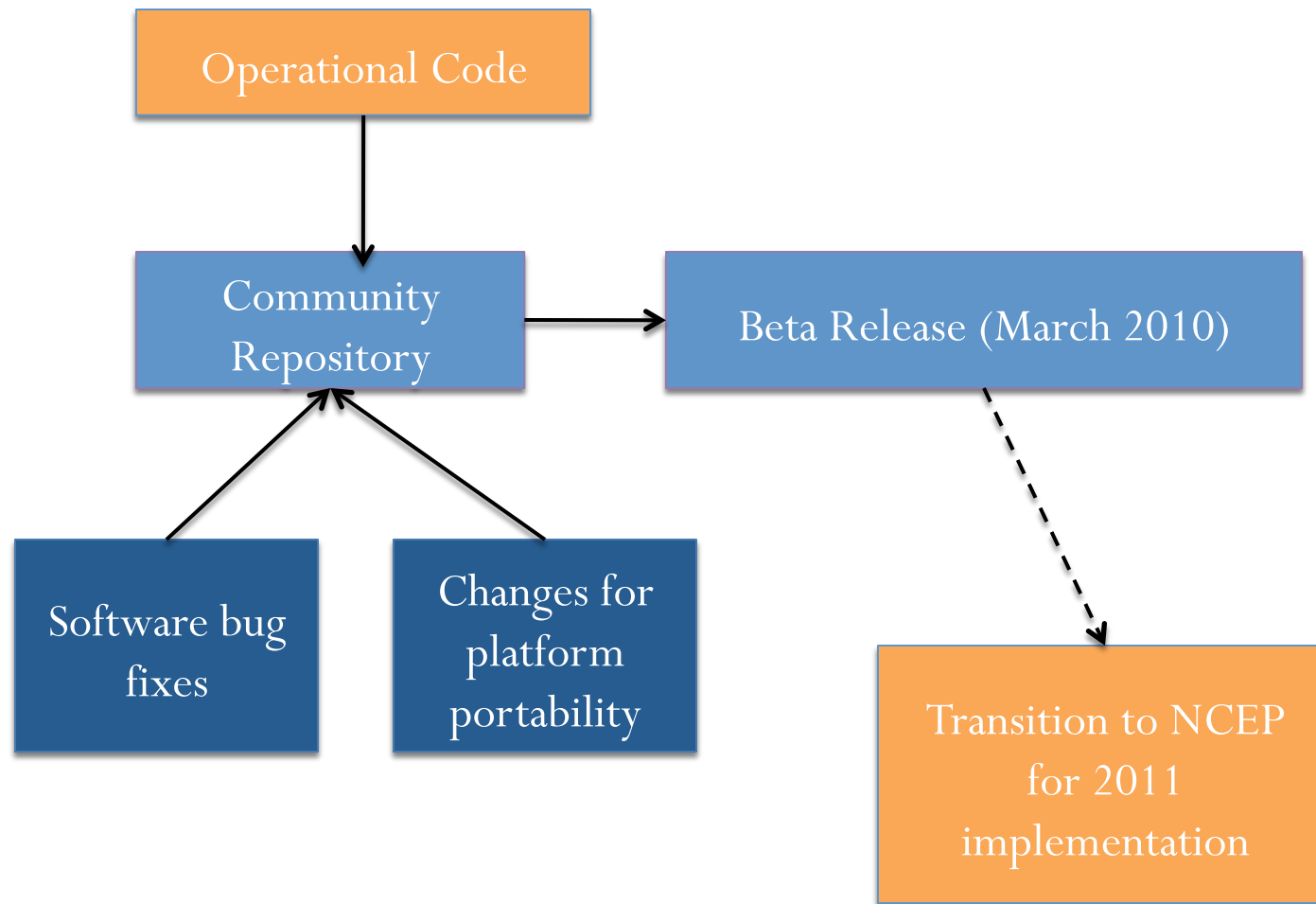
Differences between Oper / Comm

	Operational	Comm
WRF	V 2.0 + dev	V3.2
GSI	Yes	No
Pre-pr	WRF SI	WPS
GFS	Bin/Spec/native	Grib/isob
POM	United & East Atl	United

HWRF code management. Part 1: WRF.

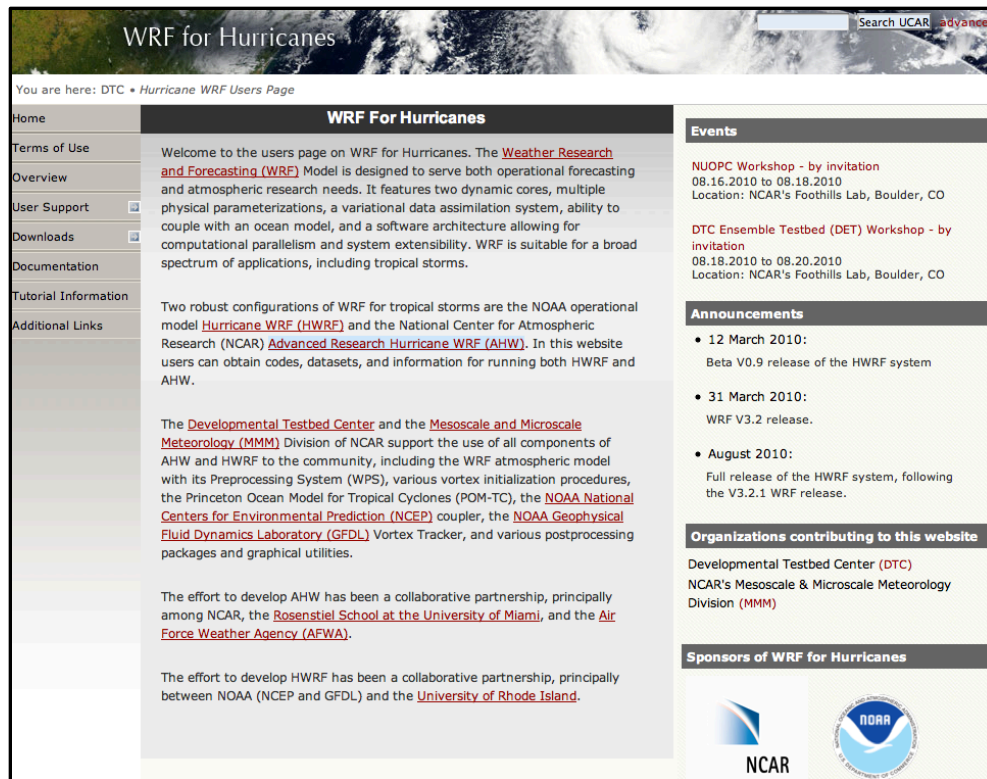


HWRF code management. Part 2: Vortex initialization, POM, POM initialization, coupler, tracker



WRF for Hurricanes: joint site DTC/MMM/EMC

<http://www.dtcenter.org/HurrWRF/users/>



AHW and HWRF

- Code downloads
- Users' Guide
- Scientific documentation
- Datasets
- Helpdesk

One hundred registered users

Testing infrastructure on njet

- DTC has created testing suite for HWRF on jet using NOAA Workflow Manager for automation – now including GSI.
- This suite will be made available to HFIP participants for HWRF testing.
- Further testing will continue to:
 - Quantify impacts of bug fixes and porting changes in vortex initialization and other non-WRF codes
 - Assess forecast skill using HYCOM
 - Assist EMC with 2011 implementation