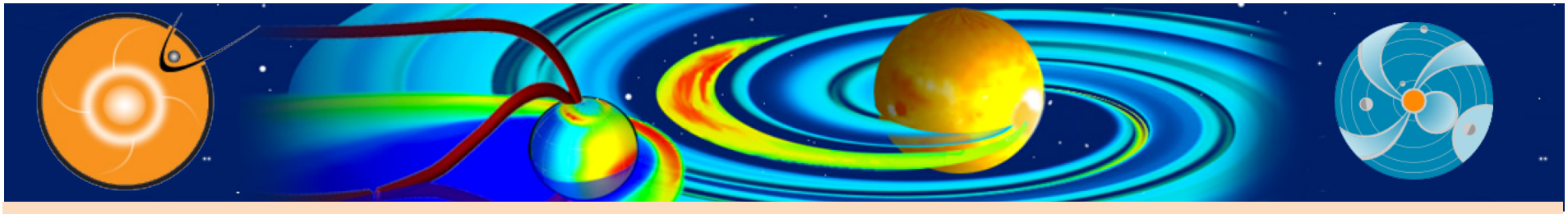


Community Coordinated Modeling Center

Welcome

to the Space Weather REDI Bootcamp
hosted by the CCMC/SWRC

M. Kuznetsova & CCMC Team

MODELS • DATA • TOOLS • DATABASES • SYSTEMS • SERVICES

Expanding Collection Of Models at CCMC: > 80

Corona

SWMF.SC+EEGGL+CME
AWSoM
EEGGL
PFSS.Petrie
PFSS.Macneice
PFSS.Luhmann
ANMHD
MAG4
UMASEP
ASAP
ASSA
AMOS
WSA
NLFFF
SRPM
MAGIC
SNB3GEO
GCR
BON
NOVICE
NAIRAS
CARI-7

Heliosphere

WSA-ENLIL
WSA-ENLIL+Cone
WSA-ENLIL+EPREM
WSA-ENLIL+SEPMOD
REleASE
PREDICCS
EXO Solar Wind
EMMREM
CORHEL
Heltomo SMEI
Heltomo IPS
BRYNTRN
DBM
SWMF.SH
DIPS

Magnetosphere

LFM-TING
GUMICS
LFM-MIX
GIC
OpenGGCM+CTIM
SWMF+RCM+deltaB
SWMF+RCM
SWMF+RCM+RBE
SWMF+RCM+CRCM
LFM-MIX-TIEGCM
WINDMI
LANLstar
IGRF
Tsyganenko
Weigel-deltaB
PS VP
Apex
AACGM
Ovation Prime
AMPS

Inner Magnetosphere

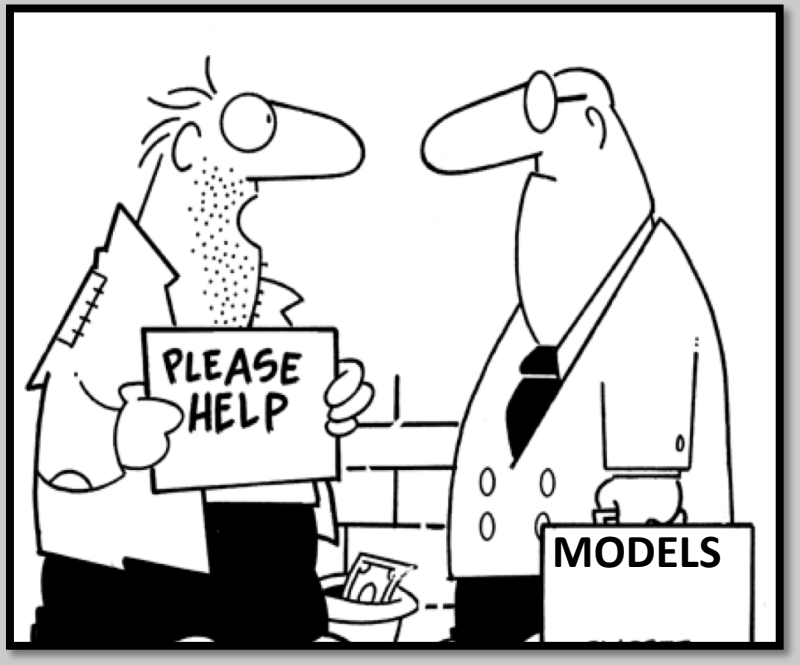
RCM
Fok.CIMI
Fok.RBE
UPOS RB
AE-8/AP-8
AE-9/AP-9
VERB
IMPACT

Ionosphere/ Thermosphere

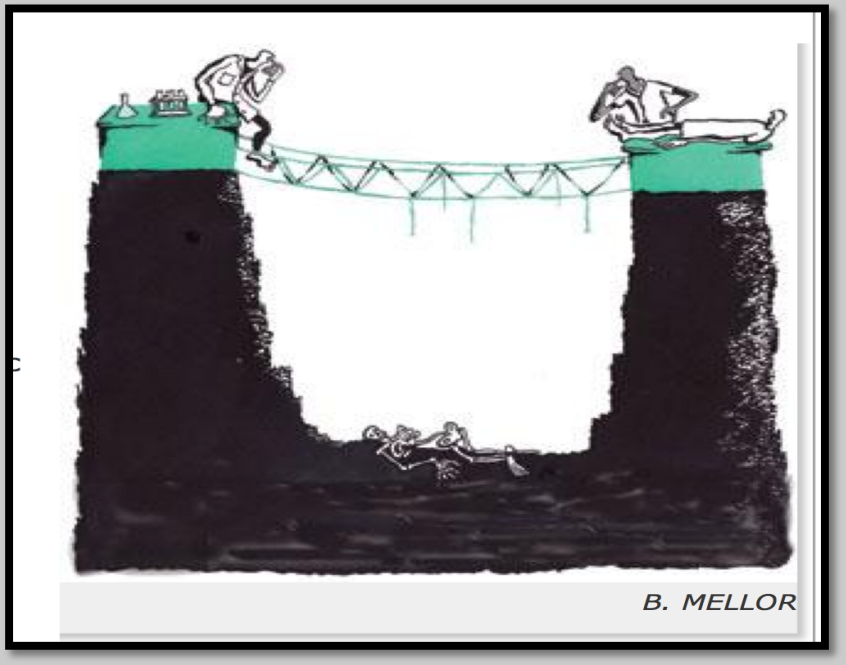
TIE-GCM
SAMI-3
GMAT
SAM
CTIPe
IDA4D
USU-GAIM
SWACI-TEC
ABBYNormal
NRLMSISE
GITM
PBMOD
TRIPL-DA
Weimer IE
Weimer-deltaB
IRI
JB2008
DTM
COSGROVE-PF

Prior to CCMC

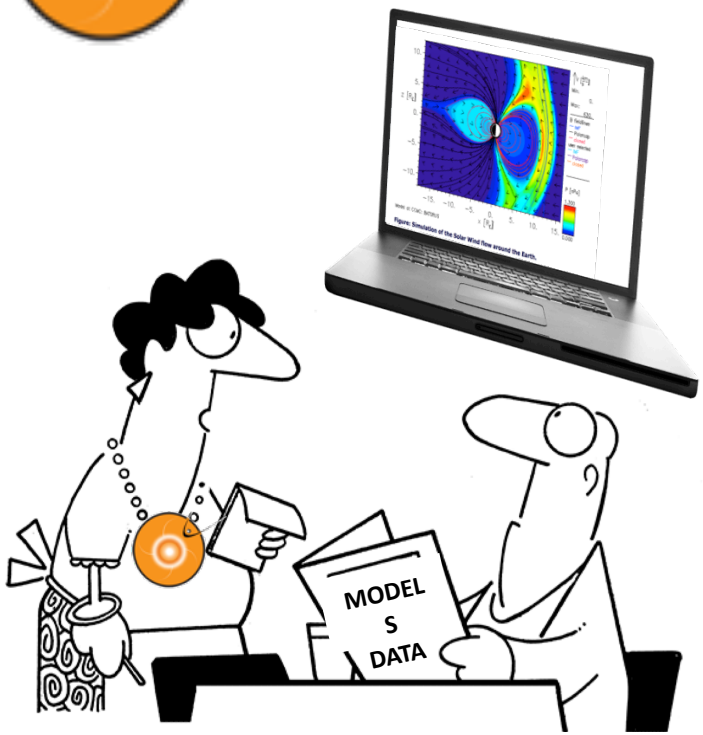
Models accessed and used by developers only.



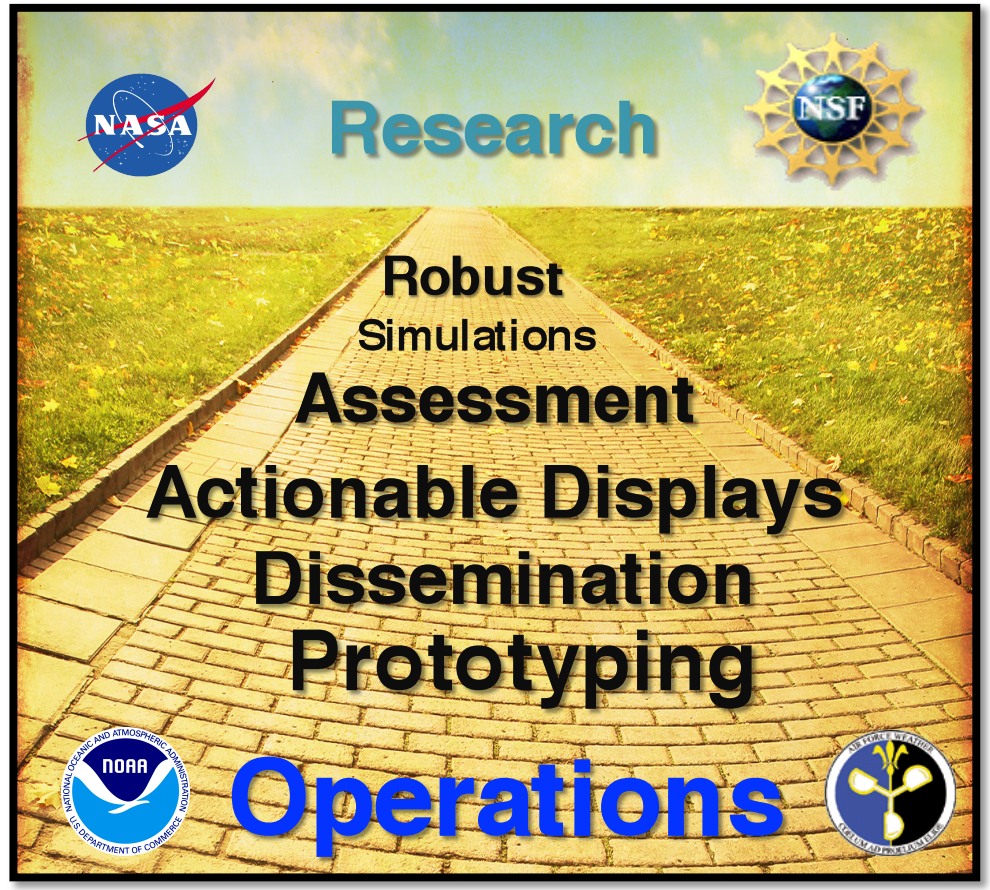
"Valley of Death" between research and space weather applications



CCMC is a Game Changing Solution



http://ccmc.gsfc.nasa.gov

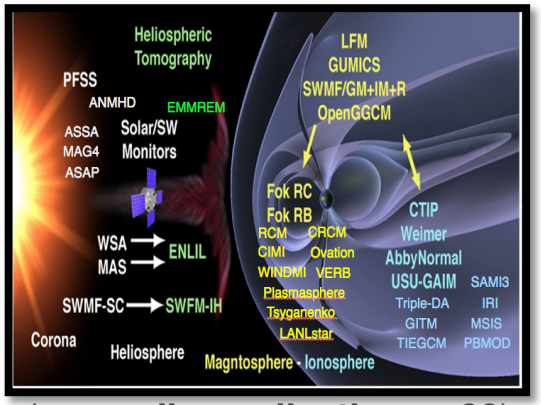


CCMC transformed the way how advanced models are utilized in research

Pioneered the path from Research to Operations

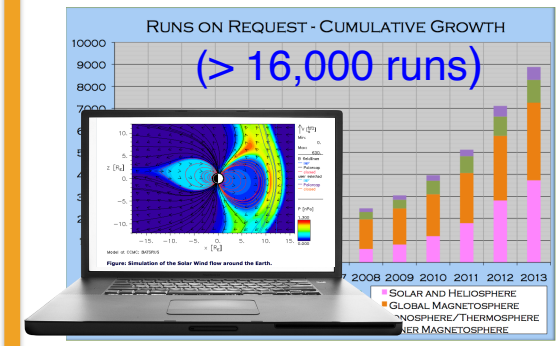
CCMC Assets & Services

Models

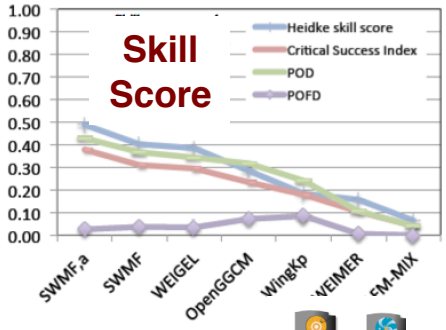


(expanding collection: > 80)

Simulation Services



Assessment



Scoreboard

Dissemination

Flexible Infrastructure
Tools, Databases
Actionable Displays

Space Weather Services

for NASA's missions

Space Weather Research Center

Hands-on Education