

INFORMING ANTICIPATORY HUMANITARIAN ACTION: A FRAMEWORK FOR USING ECMWF FORECASTS EFFECTIVELY

IT HAS BEEN QUITE A CHALLENGE!

BUT HAS HAD QUICK RESULTS

WE WANTED TO BROADEN THE **STAKEHOLDERS** IN THE DECISION MAKING PROCESS

WE AIM FOR CLARITY IN LEAD TIMES

SHORT LEAD TIMES CAN MAKE GROUP COMMUNICATION MORE DIFFICULT

THE STRENGTH OF ENSEMBLES LIES NOT IN PROBABILITY FORECASTING

WE DO NOT YET HAVE A WELL DEFINED **MATHEMATICAL TARGET**

LET'S FOCUS ON WHAT WE KNOW!

AIM TO WORK WITH PRACTITIONERS!

THE JEDI APPROACH

'JUST ENOUGH DECISIVE INFORMATION'

THE BEST AVAILABLE FORECAST NEED NOT BE ADEQUATE FOR PURPOSE

CO-PRODUCTION IS KEY!

DECISION MAKING

HELPING REDUCE OPERATIONAL COSTS!

GIVING ASSET MANAGERS A GOOD FRAMEWORK FOR

COMBINING CUSTOMER INSIGHT (WITH) ENSEMBLES

THE OFFSHORE OIL INDUSTRY IS LOOKING FOR CALM WEATHER WINDOWS

COST OF TAKING ACTION VS LOSS OF DOING NOTHING

SO THAT SAVINGS CAN BE MADE!

UEF: THE STRENGTH OF ENSEMBLES #UEF2019

GloFAS EXTENDED RANGE FLOOD FORECAST SKILL FOR THE MAJOR RIVER BASINS IN BANGLADESH

IN BANGLADESH **FLOODING** OCCURS ANNUALLY (DURING SOUTH ASIAN MONSOON)

GloFAS IS GIVING 1-30 DAY FORECAST INFO & IS USED IN FLOOD PREPAREDNESS

SUCCESSFUL FOR BRAHMAPUTRA, GANGES AND MEGHNA RIVER BASINS

THERE IS AN ABSENCE OF BASIN WIDE FLOOD FORECASTING WITH RIPARIAN COUNTRIES

AGRICULTURAL APPLICATIONS OF ECMWF ENSEMBLE FORECASTS IN AFRICA

WHO ARE DEPENDENT ON RAIN!

WE TARGET SMALL AGRICULTURAL FARMERS

WE NEED WEATHER INFORMATION THAT IS LOCALISED AND EASY TO UNDERSTAND

WE DELIVER THE FARMERS WEATHER AND CLIMATE SERVICES, AND AGRICULTURAL APPLICATIONS

FARM MANAGEMENT ADVICE

FORECASTS CAN BE ACCESSED VIA SOLAR CHARGED TABLETS AND MOBILE TEXTING

USING ENSEMBLE WEATHER FORECASTS IN AGRONOMY MODELLING

AN AGRONOMIC MODEL STARTS ON A SPECIFIC DATE

THERE ARE FOUR STAGES IN ONE CYCLE

KEEP THE HIGHEST RESOLUTION MODEL FOR EACH FORECAST

ONE LIMITATION IS THAT WE ARE ONLY LEFT WITH 12 NUMBERS

UNCERTAINTY HAS AN IMPACT