For full abstracts go to http: //www.nasa-news.org , click of Projects, then ROSES '11 NEWS Projects 1/23/13:NEWS telecom	ın																			
1/23/13:NEWS telecom recording http://www. prhouser. com/NEWS/NEWStelecom_01	21				NEWS WorkingGroup				NEWS IP Science C					a.t.			Minima			
P	Project dates	institution	Code	Tible	C=Climatology, E=Extremes, P=Prediction; LH=Latent Heating	Q1 - How are global precipitation, evaporation and the cycling of water changing?	Q2 - What are the effects of clouds and surface pret hydrologic was processes on Earth's climate?	- How are con latting in tocal latting in tocal latting cipitation and for their resources sted to global sushafe variation?	- What are the tsequences of Q5 - 1 dd cover and cores dd use change human and is teities and the tstainability of for cosystems?	What are the quernoes of e change on activities autal reliables?	How can Q7 - ner forecast pred ion and clim lifty be and oved? impr	- How can dyn in the control of the	i - How will ter cycle namics change the future?	Project Specific Science Questions	Joint Science questions (Specify NEWS collaborators)	Research Investigation Objectives	Milestones Significant Milestone		When Expected	Abbracc
PE Anta Rapp Texas A & R. Colleg Solitis, respectamented, Ph. 979 602-2360	e 93/60/15 - 8/30/13	Texas ABM University		Quantifying the water and energy budgets of marine subsidience regions	c	*	*									surfine analysis is executely in the regions and most of precipions and most of precipions may have regions and most of precipions may have the apparent incorprote ji regions as the precipion of the analysis of the part of the precipion of the apparent incorprote ji regions and a state cycle exception. The precipion of the apparent incorprote is the sate and energy budgets by focusing on closure within a specific region (entire incorprote in the convention and in a sub-observations confirm that light precipitation is a common occurrence.	* Blue rectification of each raid energy rycles in making and analysis and analysis of energy of energy of energy of energy ener	ie.		Transport and the first harmonic and energy spins a film make antimized region, would, himself to not control flower forces. Some
Pi: Joel Norrisinorris@ucsd.edu , Ph: 858-822-4420		University of California, San Diego	Amato Euan, sterfic@virginia.edu, Ptr. 434-245-7711, Bob Allen, palen@uci.edu, Ptr. 203- 546-9907	Observed Tropical Expansion: Impact on the Hydrological and Energy Cycles	c	×	×									Using several independent NEWS data sets, estimate zonal displacement of the sub-tropical dry zones and mid-latitude stron tracks. Quantity changes in hydrological extremes associated with subtropical dry zone expansion and poleward storm track retreat.	Quantify the hydrological consequences of subtropical dry zone expansion and poleward storm track retreat, which are more relevant to society than dynamical/thermodynamical shifts. Improve predictions of the water and energy cycles through improved understanding of the mechanisms driving zonal displacement of the subtropical dry zones ad mids. Bestude storm			This project will examine the expansion of the Impoca using IMSA NEWS and re-enantysis (MERRIA) data for the period 1979 to present to quartify the extent of the changes in the Topics
																Provide uncertainty estimates for subtropical	displacement of the subtropical dry zones and mid-latitude storm tracks.	n		
																dry zone and domn track mean and externe I improve understanding of mechanisms driving poleward retreat of storin track, focusing on mechanisms that connect dynamics to clouds and *Characterizerolesionitaturalvariability (e.g., EMSO) and activity of the control of the control of the poleward of the control of the control of poleward to the control of poleward to poleward to poleward poleward to poleward to pol				
TE that thereartz; becautziji acs. wis edu "Pri: 608-265-2249,	E: 930011 - 93013	University of Wisconsin, Madaon		The Role of Boundary Layer Clouds in the Global Faregy and Water Cycle: An Undergrand Assessment Using Satellite Observations	c		×									 A global and regional assessment of the variability of charged control of the control of the charged water path of boundary layer clouds based on all avoilable MDDGs and AMSR-E data. With this distance, we will attempt to globally and regionally assess the the charged control of the complementary assess that The study will be complimented with CERES, CloudSat, and other auxiliary data. 	 Establish a global reference dataset for validation of global climate models (CCAL). C-create unrified delisiest spanning the entire Aqua Sfetime using MODIS and AMSR-E. 			The primary objective of this work is the development of a rare delated graph cloud design further concretelation, fund apparently of the second control of the control of
																The derived dataset will be made available to MSA and the greater science community and will provide an excellent tool to validate climate models studying indirect aerosol effects. We are planning to build a well-documented, homogeneous dataset, dedicated to studying homogeneous dataset, dedicated to studying and cloud radiative properties.				
Profession data Establishment profession for 2014 de dil 4	\$36691 \$30413	CHBCOCE FIRST C	Moras Genes CESEC. Moras gove. (Eginas gov., Jong, Ulbernity of Castifrant, Low, Angeles, Jong, Ulbernity of Castifrant, Low, Angeles, IPP, 3107-84273, McCastifrant, Low, Angeles, Jong, Ph. 2014-24273, McCastifrant, Low, Angeles, Jong, Ph. 2014-24274, McCastifrant, Low, Ph. 2014-24274, McCastifrant, Jong, Ph. 2014-24244, McCastifrant, John St., McCastifrant, John	Cheracterising Uncertainties in Large- Scale Abrospheric Derivation of Title Derivation of Title Derivation of Title Cheracteristic of Cheracteristic Derivation of Title Remarkship Derivation of Title Remarkship Derivation of Title Derivation of	c	×	X									The primary algebrase of the proposed investigation and in "quantity flow secondary of heading distinate to uncertainties in heading distinate to uncertainties in heading distinate to uncertainties in heading confined and the contractivity of the contractivity	 Opunificacion of uncertaintes in curiner Gallitic Spain continues de atmosphic chapitic habits. Inables, in their understanding continues de atmosphic continues de atmosphic in beling, an escential continues de atmosphic continues de atmosphic in beling, an escential continues de atmosphic continues de atmosphic in beling, an escential continues de atmosphic continues de atmosphic continues de atmosphic continues de atmosphic continues de atmosphic continues de atmosphic de atmosphic continues de atmosphic de atmosphic continues	ig at		The garrang varieties of the sease is to be called the constraint, in 1986 any gas cells having unlessed. We different interests of the constraints of the security of the constraints of the constraints of the constraints. The proposed equality addresses just the constraints is better early security security addresses just the constraints in binerically security security (27 GHz).
Pl: Rachel Pinker pinker@atmos.um edu, Ph: 301-405-5380	956011	UNCP (University of Maryland College Park)		Integration of satellite	c		×									We propose to perform an in depth evaluation of current satellite radiative flux products	Derive radiative fluxes from satellites at global and regional			This project aims to perform an in depth evaluation of current satellite (mostly NASA-sponsored) radiative flux products (shortwave
600, Ft. 300-100 Call				support of hydrological modeling												(shortwave (SW) and longwave (LW)) against ground observations, other products, and numerical model corpacts, to identify region models have problems and could benefit from the models have problems and could benefit from the satellite observations. Work will be done towards understanding cale issues in the validation process and assess accuracies for each scale,	 Covin and sold we know from addition at global and regional casinal cand work closely with the scientific commodity to meet their reach). *Better undestrateding of the differences between eight reach and the scientific control of the scientific control proposed scientific and scientific control on the scientific control and longween as well as numerical model outputs to identify the project. 			(Stylind Inspect (Styling power proof above better, after protects, and executed model subject, Our of the displaces 30 (Styling power proof above better, and the subject of the subject
P. San James, Spring Vigolo ands, Ph. 333-002-2007	936541 - 8/30/13	University of Houston	Yan Yung Calbona Yung Yung Jiyogga callech edu	Investigation of the Recycling Rise of Recycling Rise of Althoughes From Observation and Model	с	×	×									and Soden. 2006; Seephens and Elis. 2008]. However, the Physics and grannic so behind these observational results need more studies. We will see the seephen	• High spalls golder precipation and user vapor data from Conf. State. Exc. This RAVA ARIS, and State of Commissed with Commissed and Commissed and Commissed and Commissed and Implementation of Commission and Commissed and Commissed and Implementation of Commission and Commissed			This practic man be addressed the repring rate of missible in the demonstrate using a number of missible sessing demonstrate perspectional property and produce property and produce produced and advantaged as the contract of missible sessing and advantaged as the contract of missible session and advantaged as the contract of the cont
Pt. jos Sastandilo, joseph.A. Sastandiloficiana, gev. Pt. 301-205- 1020	9365/11 - 93013	NASANGSPC	Christa Pelers Lidavi, NASAVGSPC, christa pelers@nasa.gov, Ph.201- 614-6911	Evestigating the Impact of Land-PSL Coupling on the Water and Energy Cycle in NASA Model and Observation Products	CPE	×	x				×				Flow do inspection with a basis and incommon as unable, and import of trimpact LA interactions and coupting during activement (e.g. designation). All the second of the se	* Bridging gaps in local/regional scale process forcused amploying ARD as an intermediary and establishing a employing ARD as an intermediary and establishing as benchmark to evaluate against in the crossed of the ord ARDS to enable seasonal and inter-emmal evaluation to be conducted amongst the products.	104(13) use wheeling, propinshasees ARS VB and resembyish date, 5500 development, 50 MP simulations, 100 M			The Board of the project is to enclude level PIE. Coupling is amount models and described disks products using disgraphics of local employee
														Compare the radiance spectra measured from AIRS (cloud-cleared radiance product; L21 against those from each of the model and observation products as generated from a stabilite data simulator (Goddant-SDSU), for a range of land PEI regimes and conditions (e.g., extremes) and as a function of their components of LoCo (e.g. ET, PBL components of LoCo (e.g. ET, PBL depth) translation into differences in	-Consistency in satellite-based ET with All	8				
														depth) translate into differences in radiance signatures using statistical techniques, and extend analysis to the global coverage of AIRS.						
Pt. Judith Curry, currying/peas, gelech, edu, Ptr. 604-85 3948	9355/11 - 4- 93013	Georgia Tech Research Corp	Jorg Ltu , University at Albany, SUNY 1400 Washington Ave. Albany, NY 1222 Fax: 518-425025 Emai: Jis26@albany.edu	Integrand analysis of atmospheric water cycle in intense marine storms	E,P			×						ga		This proposal utilizes the SeaFlux and XSeaFlux data sites - in combination with other satellities data sites - in combination with other satellities and seafless continued in sites of relevance to extreme weather events and potential abrupt changes. Scientific problems that are each characterized by the presence of high winds and large latent heat humanitaries. The seafless of t	Combined satellite-derived latent head flux, sea surface temperature, atmospheric baset heading and rainfalt, storage temperature, atmospheric baset heading and rainfalt, storage temperature and rainfalt and	n.		The present dates in ever with it for incorpagns the MESE coding and because in expected, their relatings and in trapical formation and the mean of th

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	WorkingGreep Q1 - How are global c+Climatology, E-dobrems, P-Pediction; the cycling of the cycling of the cycling of	C2 - What are the O3 - How are contraspended of Code Water see the Variations in local und cover and land cover	26 - How can earlier to contact and the contac	Science Cuestors Joint Science que Project Specific Science Questions NEWS collaborat NEWS collaborat	estions (Specify Research Investigation Objectives	Milestones Significate Milestone Collegeals When Espects	d Abstract
F) German Auftreauer 400011	× ×				We propose here to construct pre-SWOT we propose here to construct pre-SWOT entroperciously at 0.25 degree lathnick brighted speak a resolution a set of monthly time deep many for all global particle water) and direct estimates for all global particle water) and direct estimates and the set of the set of the set of the set of the properties thank when the bodies. We will all our use the properties of the set of the set of the set of the largest blobal water bodies. We will all our use the properties of the set of the set of the set of the largest blobal water bodies. We will not use the properties of the set of the set of the resolution that may be attributable to take, second independent estimate, set of the second independent estimate, set of the second independent estimate, and set on second independent estimate, and set on second independent estimate, and set on second independent estimate.	**This man's product." From the project will be time series, at monthly time set one of 2.5 segienes influence-products appeal and commonly time set one of 2.5 segienes influence-products appeal and commonly. **Modelling and data integration will serie as the basis for investigation of the series of the serie	This assemble where to develop contribly time series of global surface sales obrogen change at 14 daywa mashdum to the partial 1955 to 2016.
Et to fight Accept for even game. All to fight Accept for even ga	c				we proque to treat gas and a manifest and a manifes	researchers and serve as useful sources for climate studies.	he diginal of the cent will be by profits a comprehense of prescriptions of the signific and improve minimized and continued and
W supplied Distant, registrated, 200-11 Inhabet General gap, Ph. 305-614-62-6 Inhabet General gap, Ph. 305-6	D.				the proposed study will berraspe MASA WIRS' debasies. MASA MERPA, and he shadoof of whole will be shadown and the shadoof of whole MASA GROSS ACCR and the ACCR CASA SeederLady, prescriptions, waith region and MASA GROSS ACCR and the ACCR CASA. NATION as well as the comprehensive MERBA manager and explain distribution of the past climate extremes and investigate that climate extremes and investigate that climate extremes and investigate that the accr case of the accr case climate extremes and investigate that climate extremes and investigate that are considered in the climate of the climate and the climate of the climate in a second of the climate climate in the climate of the climate climate and the climate of the climate propagations, cut as a changes in the mean explana- tion of plant-term climate and continues of short-term climate and continues of short-term climate and continues of short-term climate and continues and short-term climate and continues and continues of short-term climate and continues and continues and continues and continues and continues and continues and	In investigate potential impacts of global warming and the leading valuated Secolal to methods and equilibrium in the Secolal conditions and equilibrium in	This proposal seals to Center investigate the risk of indicationsy fleating several in warm season short-ferm climate exchanges concluding bow that risk engits change in a changing climate.
Fi Stat Jackson St. Claud. SECOLO - MACK Control and American State Contro	C.E.P. x	· ×		With the sea maintained description in the White has desirabled and with the sea of the	or one, hearenand. In creating the control focus of the project will be good using your owner, and will be good using your owner, where a strong dipole structure in the example of 1900 (a). In creating the control focus of 1900 (a). In dipole focu	 Coast-Princip from development on an infractioning with the original received projects. There is NEETH SERFERS on community on the received projects. There is NEETH SERFERS or the received project in the recei	The proposal and in hereligines bears of the regional scale to produce independently for future feature. NEWSY scales including the produce of the produce of the scale to the regional produce in the scale to the regional produce in the scale to the regional produce in the region produce in the region produce in the region produce in the reg
P. 1907 in Faring American and in Print 5-172 data 1907 in March 1908 i	e x				extreme pracipitation threat using logistic regression to connect the MCS predictors with the CGT and Ltd dystamics, and (el examine the CGT and Ltd dystamics, and (el examine the pracipitation threats. We will utilize the Modern Era Retrospectives-analysis for Research and Applications (MEMA) data and verify our findings will be considered to the CGT of the CG	A Assessment of earlyman proception friends in auditoposal and model/tubes organized products from the process process and pro	Processor and scordinal is biscount data analysis in the study of anthrens purcipitation from an of binotify submodels regions in a second contract.
F Design Features (1997) Section Features (19	с	x x			the AMSR is records extend from mid-2002 to present; cover the important influency review, and text the published can complement, oversig, and text the published can be completed to the complete and can be completed and postatility. Our study will record the AMSR senten- based discharge and ice-cover measurements and the complete and can be completed to the examining and rates and fact cause and effect relations to the global hydrological cycle. This complete and the complete and the complete and the complete and the complete and and terregy cycle Working Group.	Tracking flood waves and apring freshed at trequent time deps littled for recyclene * quantify uncertainties of AMSE E 1911 interest to the property of t	This applicate of the project is to grantly the sectioned change in Acid Coace and schape; and jobs solds and grant based measurantees to see the case in the proposal and the section of
PL Card Clayers (charged) (see Sept. 1) (2011) Sept. (see Sept. 1) (see	c				The key quantition to be addressed by that study are: (1) How do the distributions of the head and expect and time? Now do these distributions or that expect and time? Now do these distributions rated to be associated head context antenophers; and the succession of the succession o	** A global (i.e. unconditional) and regime: depandent (i.e. conditional) estimates of the surface head and mosture flexes - exacts of the surface head and mosture flexes - exacts of the surface head and surface flexes of the surface head and surface head of the sur	The diginized of this present is to use to by term scaled (CSMA) and more distributed, data is study the temporal and update vasibility of the administration of the and entitle flavour temporal and update constant of the scale of the scal
PL Specific annual Sport als 50011 Common Planting Specific Specif	E.P	×	x		he flux of moliture from the land surface to the atmosphere is one of the most crucial, yet least understood, aspects of the climate system. Use! we fully understand its role, we cannot expect to properly quantify the relative roles of remote and local effects. We prospec to build on our ongoing and previous research and quantify the relative roles of the	development of large-scale adsasts of IT based on MCOS to address the discreption of scale between in stab and scaletile address the discreption of scale between in stab and scaletile and develop a methodology to scale satellite based ET estimates uniting grounds dated data.	The boar days proper by in marging the proper of board waters which in black durants assume the disciple equival- port control (CE). Except was and incidented the mealmost and producing board which for example true despitamental for which lase descriptions hadron.
					local and smalled facings. Our focus will be on the contract IS, though amounts will also be paid to be contracted to the contract of the contract observational and modeling sanaples will be conducted. The lost year points will be advocated to all offices. 3 Allevating the most important can effect. 3 Allevating the most important cannot weathered in reductanting and cannot weathered in reductanting and cannot weathered to the contracting and cannot weathered to the contracting and cannot be contracted to the contraction of the spatial and temporal and thought of Efficient the laund to the anticipation.		

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A Company of the comp	Pl	Project dates	institution	Code	Tida	C=Climatology, E=Extremes, P=Prediction; LH=Latent Heating	Q1 - How are global precipitation, evaporation and the cycling of water changing?	Q2 - What are the effects of clouds and surface hydrologic processes on Earth's climate?	Q3 - How are variations in local weather, precipitation and water resources related to global climate variation?	Q4 - What are the consequences of land cover and land use change for human societies and the sustainability of ecosystems?	Q5 - What are the consequences of climate change and increased human activities for coastal regions?	Q8 - How can weather forecast duration and reliability be improved?	Q7 - How can predictions of climate variability and change be improved?	Q8 - How will water cycle dynamics change in the future?	Project Specific Science Questions	Joint Science questions (Specify NEWS collaborators)	Research Investigation Objectives	Significant Milestone	Deliverable	When Expected	
The state of the s	Pr. Selp Man 2004 (1994), controlled green, files 737-464-7002	2011 OF	MGA Linguey roteasur Center	Filtre Layder, Wolds- traylorightsass, gov., Phr. 1973 864-7561, Taksmeng, Win- McSAL LaRG, Isakmeng, Wen- wong@mass.gov., Phr. 279 wong@mass.gov., Phr. 279 McSAL LaRG, Collaborator Tristan L'Ecuyer, Littivessi of Wescensin, Madisson, Secuyer@miss.dov., Phr. 2007. The State of Madisson, Secuyer@miss.dov., Phr. 2007. The State of Madisson, Secuyer@miss.dov.	Translation of the control of the co	P		×									object.				Water Cycle Study (MRSIA Asken principle and the blave Steen products in our previous MRSI investigation CCCID) and security of the study of the st
Medical Control of the Control of th	St. Plantick Taylor patricks: tayloriffmansa gov, Ptr. 257-864-7501	9364H - 936H3	NAGA Langley Reesard Center	Collaborators: Seily Halls MASA LaRC, segli satio- fightnas gov., Pri. 727-80 7002, Nierran Leeb, MASA LaRC, ng. Dobb@larc.nasa.gov. Pri. 727-864-5688	Towards an improved Understanding of the Understand	P		x					×			Analysis of the during cycle influence on law-27 lineage of marine strategically assistant closed distinct cycle on the water and extra distinct cycle on the water and extra distinct cycle of the water and extra distinct cycle of the cycle	this question, we propose to integrate NEWS and NASA sponsored data and model products including TRMM, CERES, and MERRA. Ancillary ECMWF and NCEP reanalysis, geostationary satellike cloud retrievals, and HoAPS surface	 A better understanding of the closes of smilar cloud and precipitation disultables in RREIRA that will improve the precipitation of the property of the control of the control formation of possible links abtended the property of the formation of possible links abtended the property of the control of the property of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the property of the control of the co	2		We precise these citied design based approxipally as undersativity of the desired spice facilities can the EEE/CFT First, or must include the desired spice of the compression could see relative desired spice facilities consumes factors these desired sections consistent and the compression could be approximately consumed the compression of the compressio
Agreement of the control of the cont	PL Asian Leadon adjoint@sea com 78 - 78 - 4667	65/11/2009 - 05/10/2013	ARR (Atmospheric & Environmental Research Inc)	pronoutigate com 76/ 761-200 pring@er.com 781-761-2215 pring@er.com 781-761-2215 181-761-2216	1- Assimilation of Stateline Oate in Modeling Water Vagor Places over Land	P.EH	x						x		fluxesi?	(Kapp).	discrepancies between modeled surface fluxes and related satellite-ferrind parameters and complementary in-dur measurements, in terms of the surface transfer processes for modera and enlarge and media serving phenomenology, to provide direction toward improving surface models and their satemiliation of data for water suppor fax modeling. - of succession of the surface and control of their particular surface and their substitution of data for water of source surface and their substitution of data for water produces and their substitution of their substitution of an analysis of the satisfacial relationship between the satellite observations and the flows derived from a satellite observations and the flows derived from the satellite observations and the flows derived from a satellite observations and the flows derived from the satellite observations and the flows and the satellite observations and				This pages agains increase and inhered satisfies dail to improve mode estimations of exposition low-lack, and of load to increasing the control of the contr
Figure 1 and	PT. Robert Ader rader@und.edu 301-405-3006	04/30/59- 04/29/2013	UMDESSIC	georga; Julfiranginasa; g 301-616-6200 gpu@imd adu 301-605-6618 curisv@ccu adu 252-328-2088	po Global Precipitation Variations and Extremes	C, E, P	x		x				x	x	Determine how the characteristics global and regional precipitation are changing in terms of means, variations and extremes and integrate this information into glob energy/water cycle studies.	of Examine periods before and after "Klimate shift" at about 1998-2002 in terms of global and regional water (an terms of global and regional water (an al sort out inter-annual, inter-decadal (e.g., PDV) and global warming signals with observations and models.	Approach: Analyze the GPCP precipitation record along with other shorter, high quality precipitation data sets d such as TRMM, other global data sets (e.g., surface temperature, water vapor), Also compare observational				This project focuses of the observer sensitive the are the distriction of platfol prosplation continues on the many continues and extension of the continues of
And Controlland Modern	P1: Etic Wood elwood@princeton.edu 609-358-4675	05/1/09 - 05/10/2013	Princeton Univ	hibum@remss.com 707-645-2904 x 13 cum/a@ass.gatech.edu 404-994-2948	Development and Diagnostic Analysis of a Muti-Decadal Global Evaporation Product for NEWS	LH															Amongst his various climate cycle variations, surface evaporenegration (ET) or latest hast flux as other considered the climate incident production of the climate incident incident in the control of the climate incident incident in the control of the climate incident incid
Contract of the contract of	PI: Gavin Schmidt GISS gechnicht@gies nasa gov 212-678-5627	08/30/2009 - 08/19/2013	University of Colorado, Soulder	David Noone don@colorado.edu 303-735-6073	Satellite and Model Constraints on Water Cycling Responses to DMSO and Tropical Variability Using Water IsotopestUniversity of Colorado, Boulder	?															This work exploits the key feature that the water vajor inclose ratio (POCINGO) is sensitive to the history of most processes acting during branch to source region to the deterministic and in the history of sensitive to the deterministic and interest to the control and interest to the control and interest to the value to determine the deterministic biopropheric motions washing caused by the EI Nov-Southern Ocidation (EI/OC), the inthe seasonal Madden Janach Controllar (EI/OC) and option of controllar contro
R-Paul Name What are the impacts of difference	Pt: James Famiglets UCI pamysiguesu edu ed	d. 65/15/2009- 05/10/2013	USI	chambens@car.uleusa.ed 512-471-7-483 nerem@colorado.edu 203-462-471 sabella@colorado.edu 203-462-541 Mathew Rodell@nass.go 201-286-943 wahr@emond.colorado.e 203-462-4346 seenaco@colorado.edu 203-462-4463	Mass Changes in Earth's Global Water Reservoirs v de	LH															As one production is a primary constrained and application of production is a security of the primary constrained by the primary constrained by the primary constrained by the primary constrained by the primary constrained and production of production of primary constrained and production of primary constrained and constraine
	Pl: Paul Houser		CANO		Observed Water Cycle Predictability and NEWS Organization	Р										What are the impacts of differer Can analyses of local coupling, s	ng m				The focus of this project is to address one of the most significant cubilanding gips in NEWS phase 1, which is to use the coordinated observation-based global water and energy cycle description to assess global water and energy cycle predictability.