Bangladesh Coastal zone C2M														- 1	
Bangladesh 9 Coastal districts Forestry	(code) Type of provider Name of provider Government Government	Type of beneficary Name of beneficary Summary of adaptation Detail of the adaptation Community Castal communities afforestation Castal ecosystems are dynamic and posses different resources including scoreted lands, mangroves, estuaries, rivers and seas which are contributing to a range of	Output from the adaptation Flexibility and renewal opportunities as well as enhanced sustainability of protective coastal	Details of the output Aim To develop integrated and protective resource management approach's through the transformative land use system, building Building Capa	deliberat Deliberate attempt to make gender appropriate? city Yes No	Historic evidence of the adaptation At present 23% of the Sundori coverage is in poor condition. 20	Timing of the response adaptation to chronic stress? Reactive Yes	Detail of stress respon to shoc Increased sea surface temperature; change in storm Yes	Elocd, cyclone	Other triggers?	rs The Sundarbans show that the well-diversified area (area)	Row? migration?	RR? How? es Mangrove afforestation in new coastal lands can increase	Know? K	Inc.R? How? ref Website / colline link Yes Integrated and protective resource management approach enhances Nandy, P, Ahammad, R, Alam, M, & Idam, A. (2013). Coastal Ecosystem http://download.springer.com/itatic/pdf/2814/hp/X533401.007%3529798.4411-54249-
	Agencies	Community Community effortation and reforestation and reforestation and reforestation project for Bangladesh is to reduce forest degradation and increase forest overage through participat	ecosystems.	community ownership and resiliency of coastal forests.	Yes No.	of Sundori dominant areas with a very good health index (heigh >15m, diameter> 24cm age>800 years and soil texture-sandy clay learn) will be reduced to 10% with 32 cm SLR and a further 2% with 88 cm SLR. 2013-2016		frequency, intensity and track; altered wave and water runoff; and sea level rise.	Flord Oxfore	adaptation capacity to manage current and long-term shocks and uncertainty due to inadequate access to natural, financial and institutional assets.	supporting the growth Sundri-Gewa-Goran and Sundri-Gewa) will reduce from 60% at present to 30% by the year 2100 with 88 cm SLR. As a consequence, the Sundarbans will be dominated by mono species.		above and below ground carbon stocks by protective vegetative covers. es Reduced the impact of natural hazards	Increased livelihood options and food security.	 sustainability of protective coastal ecosystems. Based Adpatation: Regidents Operimers, Operers 16, pp. 27730, 18, pp. 27730, 19, pp. 27730, 18, pp. 27730, 19, pp. 27730, 19,
Bangladesh Coastal areas, Khulna district agriculture		Community community anorestation and retrievation in tervinestation in tervinestation and retrievation and r	NAPOOT	increases to retury coverage increases of the second material and the second material groups of the second material groups of the second material second mater	mentin Yes Unclear	2015-2016 since 2011	Both Yes	Salinty res Salinty No	Hood, Lycione	NO	° / /		o	Increase inventoor options and toos security. Provides climate proof source of food and income	no fitting consistent of stategerset. (2014) variable variabl
Ghana Ketu North District agriculture	ture Individual Smallholder farme	Individual farmers of the Agricultural adaptations Agricultural adaptations Changing planting dates, using different crop varieties, use of drought and heat resistant varieties, imigation and water harvesting, tree planting, soil conservation, prayer detarict	· · · · · · · · · · · · · · · · · · ·		ity Yes No	N/A	anticipatory and reactive Reactive No	, Acz	irregular precipitation	No I	ot clear N/A P	N/A	o N/A	Due to several buffers to the adaptation measures such as lack of knowledge about adaptation and climate change, inadequate credit to own property etc.	to build realince
Ghana Dangme East District agriculture	ure Individual Households in Dangme East District	Individual Rouseholds in Dangle Agricultural adaptations use of traditional knowledge, improve farm maintenance and cultural practices; improved soft management practices; crop varietal development; additional livelihood cptions; use of agric chemicals; improved imgation practices	Households adopt various strategies to improve farm maintenance and cultural practices (tim planting, regular weeding, timely harvesting); improved soil management practices (use of cc crops, mulching and application of organic manure.); varietal development (development to resistance varietes, high yielding varieties, disease resistant varieties). Additional livelhood o	over harvest losses. action/implex drought change	ting Yes No	since 2011	Reactive Yes	High temperatures with hot sunshine conditions, and yes severe drought	Erratic and unpredictable rainfall with poor distributions, severe flooding	No 1	0 N/A 1	NA	0	Rey innovative technologies employed to adapt to climate change effects reduce the vulnerability. The same adaptation strategies are used in over 12 communities within the district thereby increasing the spatial scale of adaptation	No Begion, 1st World Statustuikilly Groum Intel, Auropa (Sagew, W. 2011). Emerging Technologies for Climate. Change Adaptations. A Case Study to Dangle East District of Gama. African Echnology Fells Valuation. http://www.atpanet.org/Fells/ups0.pdf
			(cultivation of vegetables and fruits like okra and watermelon, fishing, petty trading etc.) use chemicals; use of "neem extract" to control pest and disease outbreaks and improved irrigation practices (Sinking tube wells for regular water supplies)	of agro-											
	in Hohoe District			Diversified cropping systems Implement as Early planting	tion yes No	Not clear from document	Reactive Yes	drought Yes	flood	Disease and pest infestation	o n/a t		es Techniques to address climate extremes rely on traditional knowledge and do not require externaal inputs as these are not available, however the responses are often of limited utility.	 stappatoms could reduce wilnerability, however lack of access to technology and financial suport to apply these technologies is a constraint 	No - Nhamo, N. Donaki, M. Fritz, O. T. 2014. Adaptation Strategies to Commun. http://www.sciencedomain.org/review-history.php?lid=368&d=5&ad5+2107 Externes auto_stratule_communic_ Communic_communic_communic_communic_communic_communic_communic_communic_communic_communic_com
Ghana Hohoe district, volta region agriculture	ture Households	hosteholds Agricultural adaptations Adaptation choices by farmers included varying time of planting (EDS), use of fertilizers (PDS), choice of variety (65%) and use of herbicide (62%) and water manageme control practice (43%).	t .		Yes Undear	Unclear	Reactive Yes	Variability No	N/A	Poor soils characteristic of this area; difficult land tenure 1 system as security of continued cultivation on the same piece of land is not guaranteed; low price of local rice on the market therefore a risky enterprise	0 N/A 1	29% of farmers are migrant farmers who have moved from other communities due to unproductive lands	o N/A	s Provides food security	No Table, F.O., Addius, J.G.S., Crioni, J., Nihamo, N., Chomio, M., Adia, E.B. Kanyels, A. http://txen.org/download/accts/table.fload.acff Proceedings on Grainfeed Grainder Lange, then "vicinezability and adaptation strategies in the Voita region of Ginanz".
India North & South 24 Parganas, West agriculture Brigal	ture Individual Community	Community Community in the Agricultural adaptations Organic/NPM agriculture to restore soil fertility and retain soil mointure, Traditional saline/drought/ flood resistant seeds and animal species, Rain-water harvesting, Mi cropping/relay croppin	ed New building	Macro Management, Agricultural Extension, National Gender Resource Centre in Agriculture (NGRCA), Agricultural marketing Equipacytiming action	ement sustainable basis; Improvement in food and nutrition of women in agriculture and their families, Increase in	al security 1 area	anticipatory Yes	Cyclone Aila, floods, water-logging, No	NA	Social impact – domestic violence I	o NA Y		25		Yes a wellboods diversified and allow for more rapid recovery after disaster A.Expoor(2011) Engendering The Climate For Change, policies and practices for gender-just adjustation, Aternative Futures. Development Research and Communication Group
		centre, Still development of women farmers			under cultivation, cropping intensity and food produ- women, increased levels of skills and performance by in agriculture, increased access of women in agricult productive land, inputs, credit, technology and inform	women ire to									
India Kendrapara district, Odisha, agriculture	ture Individual NA	Community Faming community Agricultural adaptations even common adaptation measures: using different varieties of seeds, crop devortification, different photting, dates (given the high number of statements that thing of rains is charging), double seeding, shifting from farm to non-farm activities, increased use of ingration and migration	e double seeding, crop diversification and shifting of land use pattern	Descerable of lard is found to influence at the adaptation choices positively and significantly except one i.e. migration. Takking Access for rigition foiltainst exception of three of the adaptation choices double earling imrighting more and changed crop practice. Large family size positively influences the adaptation option migration. While increased size of land people are likely to go for: clouble earling, orgo diversification and	Yes No	since 1994		Farmers' response to change in precipitation pattern No over the past 20 years: 52 percent of farmers noticed a decrease in the amount of rainfall or a shorter rainy season. 48 percent of farmers noticed an erratic	NA	access to irrigation, ownership of land and land size I of the farmers positively influence various adaptations strategies.	0 NA 1	Education positively influences migration. The major adaptation trategies of formers in the study area are migration. Ownership of listed is found to influence all the adaptation choices possibilitiely and significantly except one i.e. migration.large family size positively influences the adaptation option migration	o NA	NA .	No NA. Dipitiniyee Mihn. Numb Chandri Salu Di018 Reponse of Finance 1. http://www.kuklshing.co.in/jusaticies/infinites/unfinites/unfinites/infinites/unfinit
India Orissa agriculture	ture farmers farmers	Households Apricultural adaptations Crop diversification, New crop varieties, New rice culture, Preference to rice transplanting. Altered sowing time, Efficient fertiliaer use, Efficient water use, Integrated pre-	t climate resistant crops	ahtfring of land use pattern. Weakh of the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences their decision to go for changed group practice. Image: the people positively influences the people positively influences their decision to go for changed group practice. Image: the people positively influences the people positively influences their decision to go for changed group positively influences the people positive positively influences the people positively influences the people positively influences t	Yes No	yes		pattern of rainfall (changes in the timing of rains/ earlier/later/erratic). drought yes	flash floods	climate variability I	o NA 1	на	o NA	addresses apriculture and food security	No NA Prof. Surrodratah Pasuabik 20091 Ortusa Review * April Mar - 2009. Climate http://odoba.revi.in/e-mazarice/Ortusareview/2009/April-Mar/engod/49-52.pdf
India Mousuni Island, Sundarbans aquaculture		management, Drought and flood management, Land management, Catchments management			ementin Ves Not Specified	not apparent	Reactive No	yes	cyclones		o /		es increase pond dyke height to minimise fish loss after storms		change and agriculture in Oditia change and agriculture in Oditia B K Chand, K K Twiter, M M Big (2012)Aquaculture in Changing http://www.nicra-icar.in/nicrarevised/mages/Books/AquacultureH2DinH2OChangingH2DClimateH2DoH2OSundarban, pc Climate 0 Standarban, Ved Standarban, Ved Standarban, Pc
Bangladesh Coastal areas, Khulna district WRM	and Fishery Sciences, WWF- India	Community Aquifer Tube well Contaminited pool water is purified		action action			ê d	Salinity; drought No							Survey Report on Climate Change Vulnerabilities, Aquaculture Practices & Coping Messures in Sager and Rasent III Elects of India Sundarban
Bangladesh Coastal areas, Khulna district WRM India Satyabadi Block, Puri., Odisha WATSAN		Community based adaptive water management project supported by a UNDP and funded by AuxAID - community dig out blocked 3D year old canal to relive water logg	Potable water 6	Oetailed information is absent	Yes Unclear Yes not specified	since 2011 During 2011	Both Yes anticipatory and reactive Yes			Arsenic; Water pollution	o ***	NA	o D	Provision of alle dirinking water Provision of all dirinking Provision of all dirinking Provi	No practical action Bangdetch (2013) Artificial aquifer tube well http://practicalaction.org/community-based adptation in-witerable coastid areas no Too Much or Too Little Communities Adapt to Extreme Weather Condition http://practicalection.org/content/info/en/Jonet/Jone/Jonet/Jone/Jonet/Jonet/Jone/Jone/Jonet/Jonet/Jonet/Jonet/Jonet
Bangladesh Bagerhat, Gopalganj, Jessore, DRR	Institution Outsita, Ordy, Australian Agency for International Development International CARE Baneladesh	Community Community member of capacity building The Project has been designed to assist Bangladesh, to adapt to the impacts of adverse climate change via the promotion of sustainable development and the building	f Enhanced DRR	Building capacity to undertake concrete actions to reduce vulnerability at the household and community levels Building capa	city Yes No	Since 2004 it has been huge potential to scale up	Reactive Yes	Salinity and loss of biodiversity Yes	Flood, storm, waterlogging, drought, cyclone	No	otin P		es Increase the capacity of communities to adapt to the	Raise awareness on climate change, adapt to environmental changes	Yes Not in details bilam, A. & Sumon, A. (2013), integration of Climate Charge Adaptation. http://www.opringer.com/inj/book/9784511512485
Khuina, Narail and Satkhira districts	NGO	the six project area local-level capacity to advocate on climate change issues. specially home based agriculture worker and community leader							, was ready a ready of the second structure of the sec	C	talls		adverse effects of climate change		Disaster Risk Reduction and Social Protection in Bangladesh: Contemporary Views and Experiences, Shaw J. Maillos F. F. Bilana, A. (eds.), Climate change adaptation actions in Bangladesh. Tokyo: Springer.
India Puri district, Odisha DRR	NGO UNDP (Regional Centre for Development Cooperation;	Individual/com Pegele of Puri district capacity building (community) The project in its partmentips with the Australian Agency for International Development and arms to address as orucid dimension of vulnerabilitys by supporting specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the and the specific activities to each of the and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the specific activities to each of the analysis and the analysis an	Building resilience (ongoing project)	The project aims to build realience of the poor to climate change by supporting specific activities to enhance climate change induced disaster risk management capacities.	Yes There are activities that have been supported which a specifically meant for women. The activity (mention where in Totashi and Jeypore village, the women has converted water hycinth ponds into vegetable garder	ed above) 2014.	Reactive Yes	Climatic events have led to increasing the vulnearbility of No the people	NA	NA. I	o NA ?	NA	es The people would be more empowered	s Empowerment of the community	Yes _ UNOP/AuAID (2011) Climate Change Adaptation in Odisa Fact Sheet http://www.in.undp.org/content/india/en/home/operations/projects/crisis_prevention_and_recovery/Climate_Change
Bangladesh Satkhira district Agriculture/L	Society for Wome Action Development , Odisha)	a community Famers community charged cropping type and To cope with water legging the famers have established small fish farms in the costal area and during monsoon when they can not grow rice, they can cultivate fresh		This technique helps to ensure the farmer's income and food security in response to climate induced hazards. It should be Taking									es Reduce risk of crop failure due to waterlogging	Refuze Intellicod vulnerabilities	No klaudán, S. M., & Rahman, K. F. (2013). Vulierability to Climate Change and http://www.ub.edu.bd/htte/defabil/file/journals. [ite;4]. Ferdou, En. Sci.pdl. http://u-csam.org/Activitie/N20Piles
elihood	i Sangstha (SUS)	Community Parines community Charged Opplicy System of Cost Ben and Cos	miceases autitional income and reduced total poverty	rms technique vegs transautions in the faintees is stabilitier and noor ascularly integrated to imagine regulations. In solution of the faintees of these areas were dependent on angle crop (Transplanted Anan) coloradion. Adapted action/implement of the faintees of these areas were dependent on angle crop (Transplanted Anan) coloradion.		Unclear	Reactive Yes	late onset rain No			2 F		o	Acquire elements Provides food security	No Addaption Practice is Regulation with the practice of the practice
block and Gupti and Sanwara from Rajnagar block), Kendrapara district of Orissa,															Mrathyunjaya, and S. Selvarajan
Bangladesh Madaripur and Gopalgonj districts DRR	Government Not in details	Community Famers community Climate change risk assessment The project has oriented the bioins Pathola or anithmate change insues, conducted participatory community level climate change insues, and the observation of the ob	increased hydroponics for increased food security o	Nydroponics was proved as one of the sustainable agriculture options for vegetable productions, which increased the capacity of the poor and marginal passants.	Yes No	2007-2008	Reactive Yes	Water logging Yes	Flood	No I	1		es Reduced crop failure due to water logging condition	This invelihood option helps farmers to cope with long term flooding or waterlogging condition, which might be one of the impacts of climate change in flood plain areas.	f No hism, A. & Sumon, A. Q013I, Integration of Climate Charge Adaptation, http://www.sumper.com/subook/07843154383 Distater Reduction and Society Interfaction Integrade-Incontence Datage Adaptation, http://www.sumper.com/subook/07843154383 View and Departments, Shaw, K., Adalu, F., et alam, A. (eds.), Climate charge adaptation actions in Bengdiesen. Takys: Springer
Bangladesh Patuakhali, Barguna, Bhola, forestry / Noakhali and Chittagong districts agricuture	ure Institution Environment and Forest (MoEF) /	entire model is raised, it is protected from tidal surges and storms. Mangroves surround the plots.	Increased livelihood options and protection of coastal settlements		Yes Unclear	2009	Both yes anticipatory and reactive	Erosion Yes	Cyclones; flooding: storm surge	r	۵ از	Anacdotally, FFF may reduce migration by encouraging men to stay in the area	D	Income and food provided by fruit trees and crops.	Yes Mangrove and fruit trees provide protection from encusion, cyclone, flooding and storm surge UNDP. (2013). Community-based Adaptation to Climate Change through http://www.undp.org/content/dam/bangladeh/doc//hubitations/BBA-CCA. Communitiest3204dagt.pdf.
Bangladesh Chittagong, Bhola, Noakhali, CZM Barguna and Patuakhali	national Min. of Env. and government Forests, UNDP, GE Forest Dept, Min.	F, community-led interventions focusing on coastal afforestation and diversification of community livelihood	Reduces the vulnerability of coastal communities to the impacts of climate change by affores	tation it sponsors 6,000 ha of community based mangrove plantations, 500 ha of non-mangrove mount plantations, about 220 ha of dykes, and more than 1,000 km of embaniments. It also develops entry wamping information and disater preparedness systems in witerable areas to protect at data theoretly values and to comst.	Yes Yes	Since June 2010	Anticipatory	Yes	Cyclone and storm surge	Institutional effectiveness (such as training and building I institutional capacity) and community preparedness (such as hazard insurance and livelihood protection).	o 1		es To reduce climate change hazards through coastal afforestation with community participation.	Reduce vulnerability to coastal communities to the impacts of climate change by alforestation	Bawlani, A.K. and Sovacool, B.K. (2011). Building responsiveness to climate change through commonly based adaptation in Bangladesh, Mitigation and Adaptation Strategies for Goldson, Bangladesh, B. 463.
Bangladesh Sirajgani on the Jamuna River, rural Naogaon in the northwest, development	International Action Aid	Community action plans A people's research team was formed in each village, that included women and those from the most vulnerable households. The main aim was to engage people in analyzing their own problems and whoreabilities to climate change, and to engage them in preparing community action plans (ZAP). These teams also engaged in advo	community based action plan		Yes Yes - women are encouraged to be involved in the pr	ocess Began in 2008	Both Yes	Sea level rise, saline intrusion Yes	Droughts, floods, cyclones	No	o 1		o	i feducation/knowledge reduces vulnerability?	no Secrets. C (2011). Review of Climate Change Adaptation Practices in South https://www.ordam.org/ites/www.org/ites/www.org/ites/www.org/ites/www.org/ites/www.org/ites/www.org/ites/ww
Patuakhali on the coast Bangladesh Jesssore, Narali, Gopalganj, rural Satkhira, Khulna and Bagerhat development	International CARE	work, targeting local government to incorporate options from the CAP-into local government annual development planning. Community and climate Change (VVCC) engaged 16 ioc1 NGO. 11 (Biotate future generation on climate bange including developing materials for education secondry students. Some of the material developed include taching and is far anyo stud also as possible, and a training manual for tacheter. This wa			Yes Yes	began in 2002	reactive Yes anticipatory and	sea level rise; variability Yes	cyclones, extreme weather events, Floods,	No z	•		0	diversification of food and income	no education on climate issues prepare the community to future change. Sterrett, C. (2011). Review of Climate Change Adaptation Practices in South Asis. Melbourne: Orfam. https://www.oxfam.org/Net/melmate.change.adaptation-south-asis-161111-en.pd/
Districts, southwest Bangladesh		supported by capacity-building of teachers linking educational institutions and calo eventments in the region where the teaching aids were relied out; (1) Shale aware and empower local communities: The project increased the awareness of communities in all aspects of climate change through media campaigns using radio, television port media, estabilishment of sco-older, estabilishment as Acaded programments to develop climate change unriculum, boal theater and damar, and drough grazorosci	ess nd				reactive								
		Community Local Community construction of food sile Construction of SOMT capacity food sile. Construction of concrete grain sile.jetty, conveyer belt in Mongle port	Provides sustainable food security and nutrition through developing concrete grain silo at Mc Port with modern facilities for strengthening government food management system.	ongla The site at Mongla has sweet on an average TL 9 crore each year by preventing post-CF losses. Moreover, government has earned action/imple considerable amount of dispatch money by quick unloading change	Yes N/Av	Since 2014	Reactive No	yes	Due to lack of it veryical food storages like silos with ancill facilities like Jetty, conveying system, approach roads etc., after natural calamity food grain availability was very diffic	lary Building a safe food storage facility in the cyclone prone t areas uilt.	0		es Reduces food scarcity problem during post cyclone period	 Provides emergency rote storage and ensures food security for a larger community. This measure provides food supply in a short period during post disaster condition thus ensuring food availability in the locality. 	Financial Flows for mitigation in the energy sector, and for adaptation in the food-management; food-managem
		Community Local Community opclone shetter (home) opclone proof homes that can be used as community shelters outside of storm time Community community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community shelters outside of storm time Community and the shelter (home) opclone proof homes that can be used as community and the shelters outside of storm time Community and the shelters outside of storm time Community and the shelters outside of storm tim	Providential 277		Yes Unclear	Since 2011	Both No anticipatory and reactive No	Yes	cyclone	N/A-	, ,		es Provides protection for life and assets	provides protection for assets and solid home during non storm time	Bandlatels a sottem of safe-food maximement/ Bandlatels a sottem of safe-food
Bangladesh Patuakhali, Pirojpur, Barguna, DRR Khulna India Indian Sundarbans, West Bengal DRR	Engineering Department	Community Local Community cyclone shelter (multi purpose) Multipurpose cyclone centres are capable to withstand the force of water and wind speed of up to 260 km per hour Community cyclone shelter (multi purpose) WW-India successfully completed resair/aumentation of a local helt school including sanitation facilities to double up as an effective disaster relief shelter. This disaster relief shelter.	Construction of 61 multi purpose cyclone centre in Patuakhali, Pirojpur, Barguna, Khulna	Multi-purpose cyclone centers have tubewells;rainwater harvesting system, first aid room, solar panel for efficient and reliable power. Taking action/imple action/imple	tting 100 100 100 100 100 100 100 100 100 10	1/AV	Both	Yes	Cyclope	national 2			es Reduces cyclone damages es Provides physical protection from cyclone		Yes improved DRR (This measure pottets human lives during disater), increases adaptive capacity, reduces whereability (necessary belonging can be saved). LGED (DISLS), Multipuppose Cyclone Sheker Construction Project, The Word http://www.resarchgate.net/publication/264352282. International_aid_end_cyclone_shelers_in_Bangladeh_datatatatatatatatatatatatatatatatatatat
India Indian Sundarbans, West Bengal DRR Bangladesh Chittagong, Cox's bazar DRR		relief shelter can provide refuge to 1200-1500 individuals.	er and a stater-resilient communities	Cox's Baser has a capacity surplus of more than 150 MCSs whereas Chittagong has a capacity deficit of more than 700 MCSs. Taking action/imple	ning VinDear	N/Av	Both No anticipatory and reactive No	Yes Yes	Cyclone		s Lack of adequate shelter capacity, maintenance funding and the community participation has exacerbated the vulnerability of		es Provides physical protection from cyclone es Reduces cyclone damages		No WWF, 200. Sundhams: Future Imperfect [Uniter Adjustion Report, p. 1 http://wassustitu.wsfolds.org/future/inde/uniterlaws.future_Imperfectitemate_adjustion/curditations_future_Imperfectitemate_adjustion/curditations_future_Imperfectitemate_adjustion/curditations_future_Imperfectitemate_adjustion/curditations_future_Imperfectitemate_adjustion/curditations_future_Imperfectitemate_adjustion/curditations_future_Imperfectitemate_adjustions_future_Imperfectitemate_adjustion_future_Imperfectitemate_adjustion_future_Imperfectitemate_adjustion_future_Imperfectitemate_adjustion_future_Imperfectitemate_adjustion_future_Imperfect_Imperfectitemate_adjustion_future_Imperfect_I
Bangladesh Bhola, Coastal region DRR	Government Bangladesh Water Development Boa	Community Local Community cyclone shefter (multi purpose) Construction of cyclone Shefter for reducing cyclone damages	Protection of human lives and livestock during cyclones	Cycline shelter provides security from the cyclones and associated atom surges and floods. Each shelter is designed to serve approximately 2000 people and also to function as schools.		1991	Reactive No	Yes	In 1991 more than 140,000 people died from a tropical cyclone. After this cyclone, the Bangladesh government wi the support of different foreign agencies have been buildi	N/Av 1	community participation has exacerbated the vulnerability of Chittagong's marginalised urban population. Its Due to lack of proper maintenance and management, cyclone shelters have water supply and sanitation problem		es Protecting human lives and livestock during cyclones		209-304 Yes Improved DRR (This measure protects human lives during disaster), Rahman, A. and Islam, R. (2015). Shelters and Schools Adapting to Cyclonic http://www.coastal.cooperation.net/part-III/III-3-3-4.pdf, http://www.bip.org.bdf/SharingFiles/Jpurnal_book/201308201 increases adaptive capacity.reduces winersbilliny (messary Somo Surves: Sharaldadeh: Bandadeh: Centre of Adapted Studies. Dhala.
India Ganjam, Puri, Jagatsinghpur, DRR	Government Department of	Community Community Community options shelter (mult-purpose) After the Super Cyclone in 1999, the Department Lad emphasis on the planning, preparedness and prevention along with relef, restoration and rebabilitation. It also be	to New building (ongoing project)	etange	city Yes	The constructions took place after the Super Cyclone of 1999.	Reactive No.	NA	the support of different foreign agencies have been buildi multi-purpose cyclone shelters so that these can also be us as primary schools during the normal period of time. Super Cyclone in 1999 led to loss of lives	NA .	σ ΝΑ	NA	es Less loss of lives in case of storm surger or out-	The people would be provided a place of refuge when natural hazard occurs, thus reducing their vulnerability	Ves Less loss of lives due to natural disasters Government of Odsha, 2011. Orissa Review. pp. 1-24. OSDMA, Odisha. http://oddna.gov.in/e-magazinejOrissareview/2011/lan/engpdf/1-25.pdf
India Ganjam, Puri, Jagatsinghpur, DRR Kendrapara, Bhadrate, Balasone, Cuttack, Khurda, Jajpur districts, Odisha	Revenue and Disaster Management	Community Community cyclose hetter (mult purpos) All for the Super Cyclose in 1999; the Department Led emphasion on the planning segment design and prevention along with mells, retractions, it also le the formation of the Cyclose all and the cyc		Building capa		ster the apper Lycione of 1999.	NO	Yes	. ,		,		Law or worm surges of Cyclones		mit / / room a give mage. If dir/units are very call / and engine if 25.pdf
India Indian Sundarban Delta (ISD) DRR		Community cyclone shelter (mult-purpose) Construction of Flood / Cyclone shelters and relief godowns, including two multipurpose shelters that can be used at hotels.			Yes no	started 2008	Anticipatory No	Yes	floods and cylone		, ,	Not Specified	es providing safe place for people and goods		Yes by emuring embankment construction Report of the Compiration and Auditor General of Inda Yes by emuring embankment construction Report of the Compiration and Auditor General of Inda Yes
Bagerhat districts elihood	I NGO and WAPDA	Southishail, Muslim Aid and WAPDA have constructed dam cum livestock shelter to save the livestock from flood.	Socio economic development	After AILA, BRAC attempts were made to distribute livestock among the most vulnerable households under "tagoNarr" project. Building capa		Not in details	Reactive Yes	Sainity Yes	Flood	No		About 24.25% of households in raw study areas have shifted their houses over the last 15 years. Locational change rate at Bidankhail and Gangapur is higher than at Southkhail and Gabura and it is about 44% and 43% respectively.	•	8 It helps to increase invelificoid security	No Aim, A.Y. M.A. Aad, R. and Pavin, A. (2013). (Crimate Change Adaptation http://biok.springer.com/referenceworkentry/10.1007/978-3-642-40555-9_16-18page-1, http://www.buet.ac.bd/wfm/ http://biok.springer.com/referenceworkentry/10.1007/978-3-642-40555-9_16-18page-1, http://www.buet.ac.bd/wfm/ Settlement of Gabancy, Bangkadesh, Handbook of Climate Change Adaptation, Gornger-Versity Heideberg 2013, pp. 1-20.
Bangladesh Khulna, Patuakhali WRM	Government Palli Daridro Bimochon Foundation	Community Household detailinitation of water Supplying of taile drinking water through destinitation with solar panel	Installation of 291 deSalinization panel for supplying safe drinking water	Detailed information is absent Taking action/mplec change	Yes N/Av	Since March 2013	Anticipatory Yes	Scarcity of saline free water during the dry season No		N/Av	s Not effective during night or gloomy weather P		es Desalinization with solar panel reduces salinity problem		Yes Increases safe water supplies, improves health and hygiene and thus BCT (2013d), Project Troffle; Project 10: 125, Supplying of Safe Drinking http://www.costal.cooperation.net/part1/l/ii-3-3-4.pdf; Yes Increases safe water supplies, improves health and hygiene and thus BCT (2013d), Project Troffle; Project 10: 125, Supplying of Safe Drinking http://www.costal.cooperation.net/part1/l/ii-3-3-4.pdf; Improves realience, Rodd proofing and similar messures increases Water Hy Subr OrdSainzation/Yurfication frame to the Climate Vurnerging http://www.goog.com.bl/ull-raskBct-like_descret_dkourd-sekBcd-likeurd-pRis/Hub/HUB/VICUU/Climate System Arease of Bangleichk, Bangleiche, Ban
Bangladesh Coastal areas, Southwestern WRM districts	Government UNDP through the CDMP II project	Community Household Desalinization of saline water Desalinization of available saline water from nearby ponds and canals to make the water suitable for drinking and cooking through installation of desalinization devices	Desalined water for drinking and cooking	Many poorer communities in the southwestern districts installed detailnization devices with support from UNDP to desalinize the saline water to drinking water quality.	ting Yes N/Av	Last 20 years		Salinity level in both surface and groundwater goes higher No in the dry season. During this period, people suffer from the scarcity of drinking water.		Arsenic in groundwater 1	0	not stated	es Risk to drinking water is reduced	Provides safe drinking water, reduces time of water collection and increases people's productivity and income	Improve realiserce, flood groups health and hygine and human like and hum
Ghana Hohoe, Volta Region agriculture	ture farmers Smallholder farme in Hohoe District	n Households in Nohoe Drainage channels Farmen dug canals and drainage channels to minimise effect of floods. District	Canals and drainage channels	Channels and canab allow for excess water to be drained implement as	tion yes No	Not clear from document	reactive Yes	Floods Yes Crap lass	Flood	Disease and pest infestation I	ot clear N/A P	-	es - ·	4 -	No - DKLMMSCHLCLWAG-VSMMIRGGLeHMARSMIND, 20054408.0.407KcdHraz No - DKLMMSCHLCLWAG-VSMMIRGGLeHMARSMIND, 20054408.0.407KcdHraz Externes anog Smilloder Farmers a Cace of Copping Practice in the Volta Region of Calpulation Calpulation Control Challedow Calpulation C
Bangladesh South-west Bangladesh, Chandpur WRM district	Government Ministry of Water Resources	Community Local Community drainage improvements Improvement of 0.5 km drainage system	Increased crop production and transport	Increase in food productivity Taking	Yes N/Av	Last 20 years	Anticipatory Yes	N/Av No		N/Aer 1	es Lack of proper maintenance has deteriorated drainage canal P efficiency		es Reduces drainage problem	Reduces drainage congestion, ensures crop production and improves food security	Yes Improved DRR (through drainage), wolverability reduction (drainage ADB (2012). Proposed Loan and Administration of Loan and Grant People's. Increased agricultural coverage, increased orop production); https://www.adh.org/https//delau/t/liles/project-document/17321/45084-002-ban mp.pdf Final Adjust or Table or T
Bangladesh Coastal areas, Chadpur district WRM	Government Ministry of Water Resources	Community Local Community Drainage Infrastructure Drainage Infrastructure construction	Reduction of drainage congestion	Detailed information is absent Taking action/implet	Yes N/Av	N/Av	Reactive Yes	Continuous drainage congestion problem No		N/Avr 1	0		es Reduces drainage problem	Reduces drainage congestion, ensures crop production and improves food security	promote micro-respiration of no risk and reflect one settiment promote micro-respiration of no risk and reflect one settiment promote micro-respiration of no risk and reflect one setting of the respiration of the reflect one setting of the reflect one
Bangladesh Khulna-Jessore WRM	Government Bangladesh Water Development Boa	community Local Community Drainage rehabilitation Provides proper drainage facility through construction of different structures, embankments, road, etc.	Removal of drainage congestion	Reduces undulation of water from 26% to 6%, agricultural land increase from 32% to 43%, crop intensity increase from 143% to 1887. Taking action/mplot.	Yes No	Since 1983	Anticipatory Yes	Due to drainage congestion, a huge land has been water No logged and affected by Salinization		Economic expansion 1	o 1		es Reduces tidal flood damages		microarcation microar
Bangladesh Khulna-Jessore WRM	Government Bangladesh Water Development Roard Centre for	Community Local Community Oranages Table River Different tedimentation basins are used in rotations with the help of intelligent operation of regulators. This reduces sedimentation within river and provides enhanced floating to review damage channels previously referred usets due to intrave admentation. The proposed scheme was prescribed by the end users (local people) their integenous lowedge on the humentation process in the river basin.		About 90% of the area submerged during the monsoon season has been reclaimed during the post monsoon period which is very adjustant, also boro rice and fish cultivation have increased Taking increases	Yes No	Since 2001	Anticipatory Yes	Before the introduction of Tidal river management severe No drainage congestion in the beels was a common feature for a long time		Public pressure 1	o 1	Before implementation of the option, out-migration was high. The push factor was drainage congestion induced loss of iveilihood	es Reduces risk of drainage congestion in extreme wet weather events	Reduces drainage congestion, land reclamation, year round crop production is ensured	Stef to sexted/ability Stef to sexted/a
	Environmental and Geographic Information Services, Asian														economic activities, ensured luelihood options, improved self-atternal since the adaptation option was devised and implemented by the community
Bangladesh Khulna CZM	Government Bangladesh Water Development Boa	Community Cond Community Cond Community Capital dredging of silted rivers for tidal kriver mangement. Solution of sedimentation on river bed, freshwater scarcity during dry seasons d	Revival of rivers Chitra and Atharobanki in Khulina	Capital dredging of the silted up reaches of the river Chitra and Athanobanki, excavation of tributaries and khals and removal of Taking action/imple	ting Yes No	Since 1960	Anticipatory Yes	Due to high siltation, the Atharobanki and Chitra rivers lost No their conveyance capacity		N/Avr 1	es Removal of sub-tidal benthic species and communities M		0		No No appreciable changes had occurred. A definition. M 2013). Adaptabilition Technologies in Prostica and Thur Potential in Bangladeb, Obspert 14, 65 Shaw et al. (defa.), Comman Change Adaptation. Actions in Bangladeb, Dispert 14, 65 Shaw et al. (defa.), Comman Change Adaptation. Actions in Relations, Single
Ghana Ada DRR	Individual Households in Ada	Community Ada DRR and migration Household undertake construction of drains, use of sack bags, relocation and changing of house wall materials to adapt to see level rise and flood water.	New walls of buildings and low scooping of sand from rooms along the coast	The sandbags have helped to sustain the walls of buildings. New durable material types are used for new wall constructions. Taking Reduction in the amount of sand to be scooped from their rooms.	Yes Yes, because it focuses of the gender differentials in a to SLR	adaptation last 3 years	Reactive Yes	Satellite portrait of the study area shows the number of No housing and other important structures that have been	N/A	Salinization of the fresh water bodies by the sea also poses lots of health challenges to the inhabitants in the	۰ N/A ۱	Men prefer to migrate to harbor cities as an adaptation strategy	es Use of sandbags reduces the amount of flood waters.	Migration and relation change the context and conditions within which the household used to live. New areas are less susceptible to \$1.8	Image: The second sec
	Local NGO Sundarban Social Development	Community Rual marginal/mixing/ DRR capacity.building for children The initiative was taken on Risk Mapping engaging and empowering Children and Local Community. Givening them the opportunity to understand and help mitigate son the major risk caused by extreme weather – and traveledge of how to save their lives and livelihoods during recurring crists. The implastic was given on using Logo Bird	of Children have been able to develop accurate drawings of their village and identify risks; howe have not been able to fully grasp the continued purpose of these maps which meets the purp	ever they 1.8 was evident that the targeted children were able to develop an understanding of self, logic, ethics, actions and consequences – pose of which forms the core of any initiative that is initiated with the purpose of addressing human sufferings. 2. The beneficiaries (children)	ity Yes Not Specified	After 2009	Reactive Yes	destroyed as a result of coastal erosion resulting from SLR. The Project's target locality, Patharpratima Block in ISD has a long History of Disasters, mainly Floods and Cyclones and is very Vulnerable to damage and disruption	Aila	area. not specified	0 NA 1	NA	es By awareness & capacity building of the local community children, who are considered to be one the one of the	By awareness & capacity building of the local community children, who are considered to be one the one of the most vulnerable part of the society during any disaster hit	a by awareness & cpacity building of the local community building. New Orleans-USA. Meeting, New Orleans-USA. a by awareness & cpacity building of the local community building. Process Documentation (2004):2015(0) (2004):201
Gopalnagar, of Patharpratima Block of Indian Sundarbans Delta (ISD), West Bengal	Centre (SSDC) with support from Save the Children & LEGO Foundation	Community And a magnary innoving book spaces groups and groups and an angeneration of the magnetic set and an angeneration of the magnetic set and an angeneration of the magnetic set and and angeneration of the magnetic set and angeneration of the magnetic set and and angeneratio	the pilot project aimed at testing the added value of using Lego bricks in risk mapping activiti comparison to the traditional methods of risk mapping with paper drawings.	maps allowing them to be much better prepared in case of a disaster as they would be aware of the most up to date information. At the same				is very Vulnerable to damage and disruption					most vulnerable part of the society during any disaster hit		the society during any disaster bit
District of Orissa	(Facilitation Agency) European	el Community 84 villages of 8 GP's in two blocks of Agrager and allocation in 2011.		time they can develop more spatial awareness about time and distance.	Yes Not Specified	The project was started in 2011 and is expected to continue till 2014.	Reactive No	Yes	floods	dam i	o NA ?	NA	es early warning increase chance of evauation		no Reing Waters of Mahanadi: Threatens & Coastal Districts http://www.mckindia.org/Th20coument/2004bad500bad520bad
Bangladesh Coastal areas C2M	International UNDP NGO	Larget 1418 in 4th year Community Community Constraints Community Constraints	DRR	EBA is an emerging integrated ecosystem approach to protect and manage natural resources for producing sustainable goods and Building capa services.	city Yes No	Not in details, but people have been practicing this since long before	Reactive No	Yes		No f	etails		es Ecosystem-based adaptation promotes the arrangement of adaptation policies and measures that take into account the role of ecosystem services in reducing the vulnerability of society to climate change, in a multi-	 Newly developed land use practices explored options for income generation and sustaining flow of resources. 	No Nordy, P, Aharmad, B, Ahm, M, Kitah, A. (2011). Costal Econystem Ister dAystation: Rangelades Legentees. In Uniter Change Adaptation Actions in Banglades(), pp. 277-303, Springer Japan.
India Mousuni Island, Indian rural Sundarbans, West Bengal development	NGO WWF-I	Community Residents of Mousiani Education centre for CCA. The Mousiani Climate Adaptation Centre (MCAC) is an information exchange, data and services for the benefit of the local communities. Am is to increase the capacity widenable communities to ded with the impacts of climate adaptation for the benefit of the local communities. Am is to increase the capacity widenable communities to ded with the impacts of climate adaptation for the adaptation for the benefit of the local communities. Am is to increase the capacity widenable communities to ded with the impacts of climate adaptation for the local communities. Am is to increase the capacity widenable communities to ded with the impacts of climate adaptation for the local communities. The local communities are adaptated by the elected representative of	f the		Yes Unclear	Unclear	Reactive Yes	Unpredictable rainfall ; sea level rise; erosion; temp Yes increase	Cyclone; flood	NA 2	a #A. 1	NA	es Centre is home to early warning system, relif centre and disaster response team	Provides knowledge on alternative livelihoods	No WWF, 2000. Sundarbans: Future Imperfect Climate Adaptation Report. pp. 1- 28. WWF-I Report.
Bangladesh Whole Bangladesh agricultur		Individual Famer efficient fertilizer use Use of fertilizations for vectors tech vectors scale definition scale	Production of tomato in the summer season	Satisfactory yield of summer tomato has obtained with the balanced and lower fertilizer doses inrighted at 2 days interval through drip Taking	Yes N/Av	Since 2007	Anticipatory No	No		Traditional irrigation system was not suitable for	es Limited capacity, use of chemical fertilizer instead of organic 1		0	All the year round cropping opportunity increases income, provides freedom of choice of crop, increases overall food security and	
		Community Farmer embankment construction Flood control embankments are established to save crops and houses from floods		irrigation system. action/mple change	ting					cultivating summer tomato	fertilizer			economic well-being. Reduces vulnerability (increases income, cropping in dry season, overall food security improvement)	(2012): Performance Evaluation of Fertigation and Micronutrients on Fruit Nield and Quality of Summer Francisco and Vicconutrients on Fruit Nield and Quality of Summer Francisco Resource Structure (Structure Structure): Structure Struct
Bangladesh Higher Ganges River Floodplain Flood risk managemen	isk Government Bangladesh Water ement Development Boa	Community Farmer embankment construction Plood control embankments are established to save crops and houses trom floods.	Flood-control embankment	Detailed information is absent action/mple change	ting Yes N/Av	N/Av, but filood control projects are being implemented in Bangladesh since early sixtles	Anticipatory No	Yes	Flood is a recurrent phenomenon in Bangladesh but large floods come in several years. In years with large floods, su as in 1988 and 1998, almost two-thirds of the country wen inundated.	To enhance crop production to feed the growing ch population e	Ecosystem (particularly capture fishery) suffers a lot due to the implementation of this measure. The poor people who usually live outside the embankment suffer due to transfer of flood risk	 Migration to urban areas is documented as an adaptation practice 	es Flood risk is reduced	Provides protection against flood, increases crop production and provides flood security	No
Bangladesh South-east Bangladesh, Chittagong CZM district	Government Ministry of Water Resources	Community Local Community embankment improvement Construction of sluce 3 vent-1.00 Nos, re-sectioning of 5.120 km embankment	Improvement of crop production, environment and flood situation	Increased agricultural production, better drainage condition and less damage from flood Taking action/mplein change chang	Yes N/Av	Last 20 years	Anticipatory No	No		N/Av I	o *	ter	es Risk of crop failure, drainage congestion and flood will be reduced	 Reduces the exposure to flood and drainage congestion and increases adaptive capacity by strengthening agriculture, thus ensures food security 	ed Tes Improve DRA, reduced vulnerability (through Improved production & RCCT (2014a) Project Profile 2013-2014, Project ID: 144, Maliyara, Bakkhain, Intro://www.google.com.bd/url?a=18art=j&q=4estr=s&curres=b&
Bangladesh Parki beach in Amwara Upazila CZM under Chittagong district	Government Bangladesh Water Development Boa	Community Local Community embankment raising Height raising of protection works of coastal embankments to mitigate adverse effects of Climate Change	Height raising of protection works of sea dykes	Detailed information is absent Taking action/information is absent Taking action/information information informati	Yes No	N/Av	Reactive Yes	No		N/Av t	o *		es Provides protection against rising of sea water		prof with the microarception that artuctures are flood in fair feel. Feel and the microarception that artuctures are flood in fair feel. Feel and the microarception that artuctures are flood in fair feel. Feel and the microarception that artuctures are flood in fair feel. Feel and the microarception that artuctures are flood in fair feel. Feel and the microarception that artuctures are flood in fair feel. Feel and the microarception that artuctures are flood in fair feel. Feel and the microarception that artuctures are flood in fair feel. Feel and the microarception that artuctures are flood in fair feel. Feel and the microarception that artuctures are flood in fair feel and the microarcepting article arting artuctures are fl
Bangladesh Ramnagar-Rahimnagar area of DRR Khuina	Government Bangladesh Water Development Boa	Community Farmer embankment reconstruction of embankment and river bank protection work in order to reduce erosion problem	Ensures food security, social protection during flood and infrastructure development	Construction of 1km river bank protection work in Ramnager-Rahimnagar area under Rupsha upazila Taking actor/Imple	ting Yes No	N/Av	Anticipatory Yes	Erosion problem in Ramnagar-Rahimnagar area from the No Rupsha river		N/Avr 1	25		es Prevents riverbank erosion		Improved DRR roduced vulnerability (https://www.acut.edu.bog/https://wwwwww.acut.bog/https://www.acut.edu.bog/https://wwwww
Bangladesh Coastal districts of Chittagong, CZM	Government Ministry of Local	Community Farmer embasisment reconstruction and improvement of embanisment cum-roads in coastal areas 19.51 m, construction and maintenance of bridge at different places in coastal areas-48 m	Protection from flood	safety of numari rives and their assets	Yes N/Av	Last 20 years	Anticipatory Yes	No		N/Av	ss Reduction of employment for fishermen inside the embankment 1		es Provides protection from flood	Provides protection against flood, increases crop production and provides food security	peor winn ne conception of nix mea. We summary and the second se
Bhola and Noakhali	Government, Rura Development and Co-operatives	construction of culvery at different places in coastal areas- 56 m.		acio/mple charge	tting		Reactive no				because of the shrinkage in fish population and also for boatmen as the embankment itself is a transportation medium				and communication); Risks: Realiners may reduce due to no risk. Climate Realiners May reduce due to no risk. Climate Realiners May reduce due to no risk. Climate Realiners May reduce due to no risk. Stabilities are not made flood proof with the misconception that statutures are flood risk free, 1. Climate Realiners May reduce due to no risk. Statistics are not made flood proof with the misconception that Statutures are flood risk free, 1. Climate Realiners May reduce due to no risk. Statistics are not made flood proof with the misconception that the misconception that Statistics are not made flood proof with the misconception that the misconception the misconception the misconception the misconcepti
INDIA Indian Sundarban Delta (ISD) DRR	West Bengal Irrigation & Waterways Department-Proje	Community embankment reconstruction of embankments Post-Alia			100 IIU	Ongoing Projects since 2010, after Cyclone Alla in 2009	no no	Yes	Yes, after Cyclone Aila in 2009				es by ensuring embankment construction		Report of the http://www.aktinika.gov.in/segleb/home/Der_Products/Sadit_Report/Government_Visio/Inter_and/Report_organity Comproved and Auditor General of India on General and Social Sector: Government of West Regul, Report 2 of 2014
Bangladesh Southern part of Bangladesh fisheries	Management Unit (PMU) International World Fish NGO	Community Golds farmers fisheries skills development Preserve uture is a highly profitable venture. Compared to other agricultural-based interventions, prawn culture can bring profits in a short time and over the long term require low investment.	Training manual for prawn cultivators	Disamination of an overall understanding about the methods and techniques used in this culture so that they can use this information to improve their production of praves and crass.	city No No	Not in details	Anticipatory Yes	Salinity No		No I	o		o	4p	N/Ap Abmed, N., Buerting, S.W., Rahman, S. and Gafreth, C.I. (2013). Community based climate charge adaptation strategies for integrated pravm-fish-rec based climate charge adaptation strategies for integrated pravm-fish-
Bangladesh Khulna, Jessore, Gopalganj, Agriculture/L Madaripur, Pirojpur and Jhalokathi elihood	NGO	of flood water, farmers would use the waste as compost in the land. The growth of vegetables is very high and production from dhap chash is almost double compared	to	Information to improve their production or pravies and calculated of the south-central and southern areas but it is a adaptation options. Taking bed creditive the calculated of practice in the south-central and southern areas but it is a adaptation options action/imple come other districts specially more other active specially more other active specially more other active special	ting No No	500 years old practices	Anticipatory Yes	Salinity Yes	Flood	No	o		es Reduce risk of crop failure due to waterlogging	Building adaptive capacity to cultivate agro-product in waterlogged areas, reducing food insecurity and generating more income.	Yes Floating agriculture is a possible local knowledge based technology at methods. St. M. & Anhama, K. T. (2013). Wulnerability to Climate Chaege and http://www.sub.edu/bd/site/default/files/journals_files/4_fendou_E_n_sci.pdf; Yes Floating agriculture is a possible local knowledge based technology & Alaudda, S. M. & Rahman, K. T. (2013). Wulnerability to Climate Chaege and http://www.sub.edu/bd/site/default/files/journals_files/4_fendou_E_n_sci.pdf; which would help in stainable hellood technology & Alauddan, S. M. & Rahman, K. T. (2013). Wulnerability to Climate Chaege and technology & Alauddan, S. M. & Rahman, K. T. (2013). Wulnerability to Climate Chaege and technology & possible for the stainable hellood technology. Adaptive Ager (in CE.pdf)
districts democratic emitode	Government OCCAP, BMPTC, State Government	COLP BMPTC State green building/use of bambos of Inscase of Oracian of Oracian a Oracian a Grain (addated in the vulnarbility of the region. A large numberof disaster risk has been inherent because of Itagographical location as it is in Government DR costat region. Along with this due to increase of the along database location as it is in costat region. Along with this due to increase of the along database location as it is	enhanced DRR es in	tome other startes speciary motory water egges also tood attectes area. Extension attectes area. Extension and attects area attected attects area attected attects area attected attects area attected attected attects area attected attecte	ity Yes No	Yes general local adaptation by rural population , this was befor the intervension was planned by the government.	Anticipatory Yes	Climate change, vulnaribility, stormsand disaster risk. Yes	Along with cronic stress like climate change , there is also disaster stress like, storms , cyclone flood.	Poverty, loss of forest, lievelhood , loss of agriculturala I land.	o NA 1	NA	es By building sustainble houses and buildings, that contributes to less carbon footprints and provides resilience to disaster risks.	By building sustainable houses and buildings, that contributes to less carbon footprints and provides realisence to disaster risks.	which takes the print partial many business even even look security in Addition Practices in surgedues, source of 10, 47, 2-42. The approximation of the print partial many business even many security in the print partial many business are print prime which the print partial many business are print prime which the print partial many business are print prime which the print partial many business are print prime which the print partial many business are print prime which the print partial many business are print prime which the print partial many business are print prime which the print partial many business are print prime which the print partial many business are print prin
		Incrementary, so with all these tauses (including detorestation and degradation of unitian resources) most of the houses in the ruar argoins is Kazah abouses (with that the nood), most of the traha houses have house including and the new are well off amilies in the region the state to lead to watch carbon. This is mainly because there regions are very vulnarableto disatter risk. But the Orissa dimate charge actions plan inst the tate to lead towards carbon conscious, dimate relations are development p with major focus in disatters. The state has a promoting regione housing, with alternative material such advapant and alterate (have). The tate portment is about													
District elihood	i View, with suppor from Action Aid	community	Report	Producing enough vegetables for family needs and to allow people to sell the excess to generate income. Taking accompany of the excess to generate income.	Yes Yes	Last 10 years	Reactive Yes	Salinity Yes	Water logging	No I	p		o Reduce risk of crop failure due to waterlogging	Hotps produce vegetables for family needs, allow people to still excess vegetables for income, preserve local seed varieties and support local climate change adaptation.	No No No No Atmend AU (ed.) 2010. Reducing Vulnerability to Climate Charge: The Processing Lampton of Community Based Adaptation in Bangletesh, Conter for Global Charge (CGar and Kalpation). In Bangletesh, Conter for
India Four sample villages (Jambu and rural Mangalpur from Mahakalpara development block and Gupti and Samwara from	From Action Ald	Community HH disaster coping mechanisms Houshealds eat poor quality food in reduced amounts. Children are removed from school to use as labour. Usestock is sold at 30% reduction.		dange	Yes No	Unclear	Reactive No	Yes	Cyclone, Flood		29		o		No Warnship to Classic Usang (CGC) and CARE Englisher), thata, p. 156. Interpretation (CGC) and CARE Englisher), thata, p. 156. Interpretation (CGC) and CARE Englisher), thata, p. 156. No Warnship to Charako Interpretation (CGC) and CARE Englisher), the Charako Interpretation (CGC) and CARE Englisher), the Charako Interpretation (CGC) and CARE Englisher). Interpretation (CGC) and CARE Englisher).
block and Gupti and Sanwara from Rajnagar block), Kendrapara district of Orissa, Bangladesh Higher and Lower Ganges River Flood risk	isk Individual N/Av	Individual Household Isome modification People elevated basement of their houses above the maximum flood level to keep them safe from flood water	Houses safe from flooding	Detailed information is absent Taking	No No	N/Av	Reactive Vec	N/Av N/A		Water logging due to siltation of rivers resulting from 1	o	Mgration to urban areas is documented as an adaptation practice	es Flood risk is reduced	Protects household assets from flood	Yes Improved DRR, Vulnerability reduction is limited [limited to damage to Dafam International (2009). Climate change adaptation practices in thirty agro-
Floodplains management	Individual individual	Instructional Productional and instantiation product extraction and assets, shift is employment pattern, migration, dependence on earby forest resource by barter system, reduction / change consumption pattern,	Most people in one of the study villages lived in the forest eco-system, and there existed a p	strain/mple change primitive Agriculture is the main livelihood source among the community, but during a crisis situation when there is crop loss, the cultivators Building capes	iting IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	2002, 2009 (last 12 years)	Reactive Yes	Drought No	NA	value rogging due to snatabil or ivers resulting non- reduced forsiwater flow from upstream, construction of coastal embankments, increase in high tidal water levels, etc. NA	us Increase the vulnerability and widen the gap between the rich and N	Deshingkar et al. (2008), reported around 30,000 labour migrants from Bolangir District in Odisha. In western Odisha		Poorer households have limited access to favoured coping options due to lack of capital, skills, or labour. The inability of the poorer	Infrastructure, rop damage in not addressel), Wellhood affected but ecological annes (AZZ) of Bangladesh, Final Report, shangimager University Statuse and the status of th
District, Ödisha: Two villages were development selected randomly from the Titlageri Block- 1) Mathanpalla; and 2) Jugirata	PRINEDT.	labiling occupation pattern.	arrangement of barter system - they exchanged forest commodities among themselves in ord cope with stess. community in the other study village coped with the drought by migrating. Involved a distress-led migration rather than development-oriented migration. People with a scenes using a simpler study ledibule of the swerre of firstation and lark of other system annex.	der to whited from agriculture to non-agriculture activities. The landless labourers, whited from agricultural labour to non-agricultural labour in activities. Along with a reduction in the quantity of cod consumed, the households is an changed their pattern of food consumption. This implies a shift in the food habits from normal to lower value products, part from the reduction in food consumption. This implies a shift in the food habits from normal to lower value products, part from the reduction in food consumption. In the families also indicated their executions on other one of one dimension when a their bravehold numbers. And only and articles formore and the structure on their non-form of them such as a faithing bravehold numbers. And only and articles formore the structure of the structure on their non-food filmes such as a faithing bravehold numbers. And only articles articles faithers form the structure of the structure on their non-food filmes such as a faithing bravehold numbers. And only and articles formore and the structure on their non-food filmes such as a faithing bravehold numbers. And only articles articles form form articles article articles are associated and the such as a faithing bravehold numbers. And only articles articles form form articles are associated articles articl							the poor	many contractors fix contracts for four to six months and labourers work as bonded labourers, e.g. brick making and in construction. Seasonal imgration often cocurs in post-monoson season. Deshipating 2003) note seasonal imgration is often linked to debt cycles and need for money for repaying debts or covering deficits created by loxes in agriculture, or other forms of loxs. Rate of migration increased in both village during drought years by 51.5 present. Most pools		households to adopt proper coping strategies may increase their vulnerability and vulner the gap between the rich and the poor. The poor and marginalized community in the backward regions do not have proper coping strategies, and the lack of provision of institutional arrangement, as well as assets pushes them into the poverty trap due to the occurrence of repeated distress situations such as drought. This idead is cincrease in the poverty level in the rural areas. The government takes different measures to overcome the	s Grought: A Study of Two Villages in Odinha, Working Paper No. 116. RULNR Working Paper No. 17. August, 2012 the
			livestock, migrated more compared to the others, other major coping mechanisms included s livestock and gold/alver jewellery, reduction and change in the consumption pattern, and shi occupation pattern. Generally the resource-poor farmers were forced to sell their assets duri distress situation.	selling of landlords and friends was very common among the villagers. Most of the borrowing was mainly informal.								preferred to migrate to places with acquintances/relatives at the destination. Presence of relatives, firends or acquintances from the locality provides scalar descripts to the migrate. Proople ventured the state only when they had acquisitances in the area of destination. Proople from large families migrated more compared to the smaller families as begins or joint families provide a high sense of accurity. they feel as large to leave their wife and and the smaller of the state of the state of the smaller migrated more compared to the smaller families as begins or joint families provide a high sense of accurity. they feel as large to leave their wife and the smaller families as begins of the smaller smaller smaller smaller smaller sense of the smaller sense of the smaller s		adverse situation of drought, including provision of relief. However, this is a bort term phenomenon, and does not as an effective method to deal with the long term effects of drought. However, this is a short term phenomenon, and does not as an effective providing more impiton facilities as well as farm implements. There should abe better management of rainwater - is importance should be given to rain weter havereting and mostature prevovation. Hore should abe better management of rainwater and other water havereting and other havereting and mostature prevovation. Hore should abe better management of rainwater and other water havereting and the matter havet havereting and the matter havet havereting and the matter havet hav	
Bangladesh Coastal areas, Mongla Sub-district, Infrastructy Bagerhat district	ucture Government Ministry of Local Government, Rura	Community Local Community Infrastructural development 3.30 km embankment and palasiding construction, 0.70 km RCC drain construction, 73 solar panel installation	Protection from surge, green energy and micro-climate development	Esposed coastal areas requires integrated environmental management for improving their realience against Climate Dange Taking actor/impler	Yes N/Av	Last 20 years	Reactive No	Yes		N/Av I	o /	children with their family members.	es Reduces contribution to climate change	techniques. Provides protection from flood, improves communication network, increases crop production and ensures food security	Yes mproved DRR (through embankment), increased productivity at the sport will lead to economic development, will lead to evolve and Afforestation in order to Potect Monga Pot throm
Bangladesh Entire Country Agricultur	ture/Liv Government MoEF	Community Agro-based Community Insurance The nationals is that our powerty and vulnerability to climate sharps. And traditional inters credits and savings are indequate when poor formers with no software responde to risks beyond their means to pope with. Therefore, micro or crop imuzence (C), customingd to specific needs of the pope, may be an effective	ity Introducing crop insurance as a risk management strategy for the farmers of Bangladesh	etange ktors credit by the famers created a confidence that micro insurance might bring in good for them as well. Crup insurance, the reachese of famers to pay aremium vary, depending on the size of the farms and the level and prospect of distance, causing harm to	Yes No	Crop insurance has been introduced about 3 decades ago.	Reactive No	Yes	Flood, Cyclone	It has stopped functioning because of incurring heavy It	o		o	1.06	Not in CCC (2009). Crop insurance as Risk Management Strategy in Bangladesh. http://www.infolcoh.gov.bd/download-strachment/264/1176
		nets are exposed to risk beyond their menus to cope with. Therefore, micro or core journance (C), outcomined to specific needs of the poor, may be an effective instrument for the purpose. Being suggested as a risk management strategy as a risk management strategy. traditional micro-credits and surings are inadequate when poor famenes with no safety or security refs are exposed for this beyond their means to cope with.		readines of farmers to pay premiums vary, depending on the size of the farms and the level and prospect of disaster, causing harm to their crops.						losses. For example, since 1981, the Sadharan Bima Corporation (SBC) has initiated crop insurance several times, but incurred losses over 500%.					details Climate Changer Cell, DoE, MoEP; Component 4b, CDMP; MoFDM, Chala
elihood		Therefore, micro or crop insurance (CI), customized to specific needs of the poor, may be an effective instrument for the purpose.	Ongoing project	More economic benefit from such diversified involtional oppurtunities Building cape	city yes no	since 2011	Reactive Yes	salinity Yes	Cyclone and flood			NA	o NA	s alternative climate realiant income	no ACIDE, 2014. Integrated Rice Fish Culture: Climate Charge Adaptation Option. http://www.rclimite.org/PD/bxvement/99566555566cs-1-72e-4550-a09-756e451137e68FCv22bash.20CCV22bAdaptate Parabartan Project in Kandrapara and Japatininghur. pp.2-24. Regional Centre
elhood India Rejnager and Balkuda Blocks, epriculture	(Facillitator) EU	munity prohibition of fishing in the National Park at Bhitarkanika led to serious livelihood crisis. The system of Integrated Rice-Fish Culture combines, pisciculture and paddy													Parabartan Project in Kendropana and Jagditsinghun: pp.2-32. Regional Centre for Development and Cooperation. Bubaneshwar, Oddsta.
		munity prohibition of fishing in the National Park at Bhitarkanika led to serious livelihood crisis. The system of Integrated Rice-Fish Culture combines, pisciculture and paddy					Reactive Yes	Depletion of groundwater levels, and rising cost for No groundwater irrigation		N/Av 1	es HTWs for drinking water and village ponds for subsistence use may a get affected		0	AND saves water, fuet, electricity and production costs, proper water management increases agricultural production and people's income	Yes Improved DRR (in case of drough), sustainable use of resource, Adjustion, S. M. and Rahman, K. F. (2013). Vulnerability to Climate Change and Intp://www.sub.edu.bd/inter/defaul/files/journal_files/i_ferdout_En_science/i_files/i_ferdout_En_science/i_files/i_fordout_En_science/i_fordout
	(Facilitator) EU (Funder) Regional Centre for Development Corporation (RCD0	munity prohibition of fubing in the National Prior & Biharahala ind to service valentifying or disk. The system of Integraphet Rice-Fibi Culture combines, psiculture and paddy culture into inclusional restrict and gravity of Interiorular iterative advices that and paddy culture of the system of	Improvement of Irrigation efficiency up to 28% for rice	AWD is an environment-friendly method. It does not reduce crop production. However, it reduce water and fuel use. Taking action/imple	ting Yes N/Av	N/Av	1		NA	N/Av 1	es Arsenic contamination, salinity intrusion and declination of 1		0	Reduces water scarcity of drinking and irrigation water during the dry season, increases agricultural production and ensures food	also with CE scenarios), better economic well-being;
Kendrapara and Japtsingpur district, Odioha Bangladesh Rangamati,Johgrachari,Bandarban, WRM Cox's Bazar/Chittagong	(Facilitator) EU (Funder) Regional Centre for Development Corporation (RCD0	munity probabilition of fubing in the National Privit at BitManaha laid to service valencing on citics. The system of Integrated Rec. Fubi Culture and paddy culture locational received and privite of Porticular later, fuel wood responses and possible porticular laters, fuel wood responses and possible possibl	Improvement of impation efficiency up to 28% for rice	action/imper action/imper Ratistics indicate that famers are becoming increasingly productive as a result of enhanced access to irrigation through groundeater Taking	Yes No	N/Av Since 1960	Anticipatory yes			1	groundwater level	1		security	No CCC, (2009). Adaptive Crop Agriculture including innovative Farming Practices http://www.google.com.bd/url?satErtrialiga-Beercraik.tource-web&cd=1.8ved=CabUKEwp2ubPW06XAhUUUYKWY; In the Careford Prace of the Careford Practices http://www.google.com.bd/url?satErtrialiga-Beercraik.tource-web&cd=1.8ved=CabUKEwp2ubPW06XAhUUUYKWY;
Kendrapara and Japitsingsur district, Odinha Bangladesh Rangamati, Ahgrachari, Bandarban, WRM Cox's Bazz, Chittagong agriculture Bangladesh Chandpur agriculture	(Facilitator) EU (Funder Regional Centre for Development Corporation (NDD Government BBRI Urre Government BBRI Urre Bevelopment Boardiash Water	multip probabilition of fability in the National Prior & diffuturational is index services within the control inst. The system of integrated Kee-Fabil Culture continues, posiculture and paddy culture of logical and parties of fability in the National Prior & diffuturational integration and parties of the fability way of eggs and meat and also pest reduction. The programme has been started on a pilot basis. Community Fammer ringation Alternate Wetting and Drying (AWO) is a method in which limited irrigation is provided through respective wetting and drying Community Fammer Irrigation Forum dwater- irrigated agriculture plays an important role in povery alleviation and has greatly increased food production. Community Fammer Irrigation Forumdwater- irrigated agriculture plays an important role in povery alleviation and has greatly increased food production. Community fammer Irrigation The adaptation included the introduction of communal irrigation through micro- irrigation. The reasoning was that climate grain plays that climate role in povery alleviation and has greatly increased food production.	Increases crop production in spite of salinity problem in coastal regions 11 acres was brought under cultivation at Wooster, 11 acres at Valgo and 10 acres at Gbell.	action/impediate change Statistics indicate that farmers are becoming increasingly productive as a result of enhanced access to impation through groundwater in Taking account of the state	tting Ves No Ves No	NJAv Since 1960 last 6 years		drying trend and rising termperatures No		Dayi Basin is recently settled for agriculture - farmers come from other parts of Ghana, i.e. agricultural frontier movement challenges: deforestion of catchment	o n/a ۲	Labour is getting scarce due to the outmigration of young people, therefore there is less weeding by cutlass and ho, and more use of agro-chemically heavy use of herbicide to prepare the rate-fed crops	D	reneration: which and introduction and impainting and impainting water using one of y second, increases agricultural production and ensures load secondly The farmer are usually vulnerable to dry second farming because of lack of water, but the impation reduces the burden through constant water supply in the dry second	No CCC, DD09, Adapting for Opa genotative fronting himosetile Forming Particles https://www.acata.mcb/adu/Back_securcu/secure-weekdicul-Back_adu/Backadu/Back_adu/Back_adu/Back_adu/
Kendrapara and Japatilingsur district, Odiaha Bangladesh Kangamati, Khaganari, Khandarban, WRM Cox's Bazar, Chittagong Bangladesh Chandpur agriculture Ghana Dayi basin WRM	(Paillintor) EU (Punder) Regional Canter for Development Corporation (HCM) Government BBR uare Government Bangladesh Water Bangladesh Water Informational Development Bangladesh Water NGO Institute (DI), Cha	munity probabilities of fability in the National Privit at BitMatanha late for serious Numbridge on this. The system of Integrated Kee-Fability Culture continues, procedure and paddy culture fability and privity of Privitica Patient of Integrated Kee-Fability Culture of Content and Privity Patient and Patient	Increases crop production in spite of salinity problem in coastal regions 11 acres was brought under cultivation at Wooster, 11 acres at Valgo and 10 acres at Gbell.	statistics: indicate that farmers are becoming increasingly productive as a result of enhanced access to irrigation through groundwate fasing action/mpler change cation/mpler change	tting Ves No Ves No	N/Av	Reactive Yes	drying trend and rising termperatures No		Dayi Basin is recently settled for agriculture - farmers 1 come from other parts of Ghana, i.e. agricultural frontier movement challenges: deforestation of catchment /expansion of farm land along river banks, resulting in bank erosion. Sash and burn agriculture is practised in a comparatively small area	o n/a Y	and more use of agro-chemically heavy use of herbicide to prepare the rain-fed crops	0	security The farmer are usually vulnerable to dry season farming because of lack of water, but the imgation reduces the burden through constant water usually in the dry season	Composent Bg.COMP.MorPA/Databa. Komposent Bg.ComPa/DAtaba. Komposent Bg.ComPa/D
Kendrapar and Japtingpur district, Odoha Bangladesh Rangmati,Magnohat,Banduban, Cox's Baar,Chittagong WBM Bangladesh Chandpur agriculture Ghana Dayi Boar hash- kukuranturi,Johani (Uptoream) WRM Ghana Dayi Boar hash- kukuranturi,Johani (Uptoream) Ferestry	(Paillinton) EU (Punden) Regional Canter for Development Corporation (HCD) Government Government Bangiadesh Water Government ReG0 Bangiadesh Water Development Institute (pi), Gha Institute (pi), Gha y Institute (pi)	munity and probabilities of fabring in the National Privit at BitMatanha late for services Methodis on this. The specified material section is completed and the set of the Culture combines, procedure and paddy culturation (and the set of the Mathematha late for services). Methodise and method is combined, proceeding and paddy of the Culture and and paddy culturation (and the set of the family by way of eggs and meet and also pert reduction. The programme has been started on a pilot basis. Community Fammer infigation Alternate Wetting and Drying (AWO) is a method in which limited infigation is provided through respective wetting and drying Community Fammer infigation Groundwater-infigated agriculture plays an important role in povery alleviation and has greatly increased food production. a Community Fammer infigation Finded to the information of community ingented agriculture plays an important role in povery alleviation and has greatly increased food production. a Community Fammer ingestion Finded to the introduction of community ingestion through mice ingestion has greatly increased food production. a Community Viage and Clefit Tingestion Finded set production of community ingestion through mice ingestion has and while set production of community ingestion through mice ingestion would be a more secure form of famming. Land acquired, tyraming provided, u groups registered with givernment. a Soconformers and theresereset form of famming. Land a	Increases crop production in spite of salinity problem in coastal regions 11 acres was brought under cultivation at Wooster, 11 acres at Valgo and 10 acres at Gbell.	Statistics indicate that farmers are becoming increasingly productive as a result of enhanced access to irrigation through groundwater Taking action/imple Conflict 33 acres was brought under cultivation at Weadse, 11 acres at Valpo and 30 acres at Glieft. Taking action/imple Not specified Taking action/imple Taking action/imple Conflict 33 acres was brought under cultivation at Weadse, 11 acres at Valpo and 30 acres at Glieft. Taking action/imple Not specified Taking accomplexity Taking Community members will have land to settle on Taking accomplexity	Yes No ting Yes No ting Yes No ting Yes No ting Yes No	N/Av Since 1960 latt 6 years Ongoing informal irrigators effects of dam construction and climate change have reduced t	Reactive Yes reactive Yes		N/A N/A	come from other parts of Ghana, i.e. agricultural frontier movement challenges: deforestation of catchment /expansion of farm land along river banks, resulting in bank erosion. Slash and burn agriculture is practised in a	o N/A State over who is responsible for Y	and more use of agro-chemically heavy use of herbicide to prepare the rain-fed crops	Educating farmers will help them know the best method to use Relocation provides better protection against sea attacks	security The farmer are usually vulnerable to dry season farming because of lack of water, but the imgation reduces the burden through constant water usually in the dry season	No Composent Bg, COMP, Molf 200, Database Letter U, Become No. (DIS) (MMIRL display, Backeting No Model Model Au, and use Rememperative and the USAPS, Routh Marketing State and the USAPS, Restriction The Retention d. Inter / State and the USAPS, Restriction The Retention d. No Not clear Present W P, Stringer C, Mis, 81, 0000 Cleanate charge susceptibility of none Inter / State and the USAPS, Restriction and the USAPS, Restriction The Retention d. No Not clear Present W P, Stringer C, Mis, 81, 0000 Cleanate charge susceptibility of none Inter / States No Not clear Present W, Minney C, Mis, 81, 0000 Cleanate charge susceptibility of none Inter / States No Not obvious links Monals, Co. (2014) Linking Precurition to Adaptive Co-Management to Inter / Journal Bungeright Audmin/J0021/8111
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Bangladesh Entire Country Livestock	Government MoEF	Individual People who are with Livestock f	wolve Livestock and manure ming management	Major prospects exist for blogue production in the country from the manure of livestock, particularly large numinants. In the fiscal year 2011/2012, livestock product increased almost two fold since the fiscal year 2003/2004.	tton has Increasing levels of socio-economic conditions	In the 2001/2004 fixed the milk, mest and egg production was 1.59 Millon Metric Tone, 5 MMT and 4780 million no of eggs respectively where as in the fixed year 2011/2012 the production of milk 3.46 MMT, meat 2.33 MMT and egg 7303.89 million no respectively.	Taking Yes No action/mplenting Yes	In March 2007, the outbreak of Avian Influenza in the livestoc sector was facing a critical situation. Still now, it has not recovered, but the rate has reduced. The department of lives services (DLS) is responsible for mitigating flood losses in the livestock sector in close calaboration with hotter gord. and on	atock	Yes Flood	No	Not in details	No No	Not in details	No		MoEF (2012). Second National Communication of Bargladesh to the United Nations Framework Convention on Climate Change, Ministry of Environment and Forests, Chala	Report
Bangladesh Pirojpur District (Bhandaria and Livestock Nazirpur upazilas)	Agricultural			The feeding of a diet balanced in all nutrients and at a level that meets the production objective, while considering the animal's physiological state, is imperative for achieving high and sustained livestock productivity. The increasing intensity of drought in the north-western barind area is resulting in a lack of availability of natura	or Fodder cultivation ral green	Napler, German and Jambu varieties were recommended for the drought prone upazilas. Para was particularly selected for the co- upazilas and Napler was also on the list.	oastal Taking Yes No action/implenting	ivestock sector in close collaboration with other govt, and no covt, agencies. Since 2008	Reactive Yes Drought, Salinity	No	No	No	No Yes Increasing instrumentation	ng availability of natural green grasses by Yes ng reed in adverse climatic condition	Provides alternative livelihoods and helps to ensure healthy cattle density. No		Nasreen, M., Hossain, K.M. and Azad, M.A.K. (2013). Climate Change and http://www.buildersilence.org/2011/proceedings/lite/papers/454.pdf.	Conference Proceedings
Ghana Tekpekope forestry	Extension International Rufford Small NGO Grants Foundat	Community 12 communities ation 150 community	over mangrove regeneration	memory (iii) and sensitive memory bureles have been and and the sensitive of the sensitive	Livelhood improvement, training and environmental quality	paratise and respect to a sind of the sate. This project has led to livelihood improvements, training and environmental quality	change	, crab Before the adaptation, portions of the settlements had been degraded leading to droughts. Thus in 2008, the mangrove	Reactive Yes Land degradation and drought	No N/A	Poverty	No N/A	No N/A Yes Training	participants in environmental management to Yes protect the tress against fire and environmental	Training participants in environmental management to care and protect the tress against fire and environmental hazards reduces Ves vulnerability	By reafforestation	dramodo i degljavaci vplikilika prijavje meg i stravani regovi internationa Conference na bilding Relimo, pp. 135 Mensah, k. O. (2014), lunking Prezulation to Adaptive Co-Management to Apti Furzi Water Resources for Uniter Charge i Gehan. The University of Apti Furzi Water Resources for Uniter Charge i Gehan. The University of	Unpublished PHD Thesis
India In 6 villages viz. Badkot, Naranpur, forestry		members and 1	schools	1. A Mangrove Action Group (i.e. Maa Kharakhai Mangrove Action Group) has formed with the members from the village including village head, ward member, farm	mers, new mangrove forests are valuable resources for creation of economic opportunities.	1. With the joint effort of the entire community, the endangered mangrove forests and the fish, animals and birds that live in the	change	restoration project was started	Anticipatory Yes The location of the respective areas in the vulnerable	No N.A.	not specified	No N.A.	No NA Yes The nature	reduces disaster risk ural shield of Mangrove species would act as Yes	The natural shield of Mangrove species would act as protector and help reduce the cyclone or storm surge impact of the area Yes	The natural shield of Mangrove species would act as protector and	Guelph. APOMA (2013) Community Based Mangrove Conservation: http://www.mangrovesforthefuture.org/assetu/Respository/Documents/Community-Stewardship-in-Conservation-Restoration-and-Management	.nt-of- Online Report & pdf
Suniti, Narasinghpur, Kaltala, and Bhateni of Kendrapara District of Odisha	Protection of W Animals (APOW Centre for Coas Sustainability (Wild WA): sstal (CCS)		local school teacher, women groups, youth representatives; 2. The Oganisation has initited joint bank account in the name of the council		are being minitained; 2. The Max Hunzkahi Mangrow Action Group has also taking care and management of a mangrow nurver their village with the support of AVONC, In mangrow nurvery to tellow guide as many prove demonstration, clusteria research site; 4. More than 16000 excellings are grown at any time; 5. Mangrowe Action Group has been supplying appling to othe villages and mangrowe committees for plantation, resulting good relations with them	ry in ver		coastal zone prone to frequent cyclones and floods				protection impact of	or and help reduce the cyclone or storm surge of the area		help reduce the cyclone or storm surge impact of the area	Enhancing Community Based Participation on Mangrove conservation in <u>Mangroves in Orisa pdf</u> Coastal Villages of Kendrapada District, Odisha, India	
Bangladesh Coastal region Agriculture/Liv elihood	International Oxfam Internat NGO	ational Community Farmers	Multi-level farming	The "Kandi-paya Ber" cultivation practice is very common in the region. In this method, the land is artificially undulated. Farmer creates successive high and low stru- made of sol. The higher part is called "Kandi-pay" and between two successive "Kandi-pay", the lower part is called "Ber". In "Kandi-pay", target and pand, biter gaurd, totranto et: When this structure is subacted incide the rige methodement, during ray mascon they cultivate link in the "Ber". Ber when this structure	a, nut,	Not in details	Taking Yes No action/implenting	Not in details	Reactive No	Yes Flood		Not in details	No Yes Reduce ri	risk of crop failure due to flood Yes	Reduce livelihood vulnerabilities, food insecurity and nutritional deficiencies. Yes	By adopting this practice people could be able to continue their cropping in both dry and rainy season	Ordam International (2009). Final Report on Climate Change Adaptation <u>https://www.cphd.ord/WritartAkrtisReveakdourcewsbl.edu/SkowichtUNUCgVUVUT/wr/CogRadAUA&urhitty</u> <u>Aractices</u> In bitry Agree cological Zones (AE2) of Bangladeh, Jahangirange <u>Https://www.cphd.org/UTresortessTrf-Changeh-AgreeCological-UtresortessTrf-Changeh-AgreeColog</u>	3%3A%2F Report
Bangladesh Coastal Areas agriculture	Government and NGO	Community Farmer	New crop varieties and farming methods	gaine, oner gaine, icomate etc. when this structure is structure in sub-etc ming eliminationment, during rainy assiss mer quitavater duristie for a most etc. "The der's is bloedet on wire financial structure duristie for any structure duristie (1) Biorofallow Taman, (1) Fallow Fallow Taman-ficht- regerative on structure of any structure duristies (1) Biorofallow Taman, (1) Fallow Fallow Taman-ficht vegetable on structure (1) Replaying for for any structure with high vielding, as at and or any structure duristic	levees,		No N/Av	Since 2003	Reactive No	No	to increase agricultural yeilds	No	No N	Yes	Ensure food security No		Sattar, S.A. and Abedin, M.Z. (2012). Options for Coastal Farmers of Bangladesh http://purcentre.org/images/evtraimages/42%20812025.pdf	Conference Proceedings, Organizational website
Bangladesh Coastal Areas, Shariatpur agriculture	Government BRRI	Community Farmer	new crop variety	submergence tolerant varieties Saline tolerant rice variety of BRRI dhan47. These saline tolerant variety is cultivated during the Boro season and they can tolerate salinity up to 14 dS/m during the		Detailed information is absent	Taking Yes No	Since 2006	Reactive Yes salinity intrusion	No	To enhance crop production to feed the growing		No No	Yes	Increased crop production increases people's income and ensures food security. Reduces vulnerability by improving food security, dry No		Adapting for inpacts of Climate Change, International Conference on Generonment, Agelutary and Food Science (LASTOLD) 2015 Palekt (Thailand) Rahman, KLM 2011) Contry report: Bangladesh, 2081/470 Workshop on http://www.umaym.org/reportsQuelhood/implications_of_Climate_Dange_on_Cong_Production_ip_Bengladesh_end_Possible_Adaptation_1	_Techniqu Report, Organizational
	Government BRRI	Community Farmer		stage and 6 dS/m during the other growth stages		Detailed information is absent	action/implenting change		Reactive Yes salinity / high tides		population	Village ponds for subsistence use may also get affected. Yes Ecosystem is likely to get affected. HTWs for drinking water and			season agriculture ensures safety of production, these increases system resilience		Cimine change and its impact on Agriculture, ministry or Agriculture et	2- Website Reporting
			new crop variety	High tidal non-saline rice variety of BRRI dhan44. This high tidal tolerant variety BRRI dhan44 can tolerate salinity up to high tide of SOcm	Production of rice in high tidal non-saline water area		action/implenting change	Since 2005		NO	To enhance crop production to feed the growing population	Yes Ecosystem is likely to get affected. HI wis for drinking water and village ponds for subsistence use may also get affected.	NO YES REDUCES I	s high tide caused damages Yes	Increased crop production increases people's income and ensures food security. Vulnerability reduction through enhanced food No security		Climate Change and its Impact on Agriculture, Ministry of Agriculture.	Website Reporting
Bangladesh Entire Country Agriculture/Liv elihood	Private American University International University	Community Farmers commu	ity new crop variety	Bangladesh has an advantage of growing diversified crops in summer (April July), monsoon (August – November) and winter (December - April) seasons. The crop fa became intertraffied with expansion of groundwater irrigation and the cropping pattern remarkably changed after adoption of HTV (high yielding variety) rice in wint season.	arming Planting new variety (high yielding variety) to increase rice production ter	Remarkably changed after adoption of HYV (high yielding variety) rice in winter season. The main pattern changed from local sum rice and jute to local monsoon rice during monsoon, and winter wheat/pulses, frumstard (Aegetables, From Fallow (summer) to lo /HYV monsoon rice (monsoon) and HYW winter (rice winter). The water-intensive faming of winter rice replaced many crosp group	local action/implenting	Early 1990s	Reattive Yes Temperature rising	Yes Flood, cyclone	Increase pressure on groundwater	Yes Some problems with water management in Bangladesh. They suggested regional cooperation among co-basin countries to minimize water gap of dry and wet seasons to create a sustainable	No No	Yes	Ensure food security No		Akanda, A. I. (2010). Rethinking corp diversification under changing climate, hydrology and lood habit in Bangleden. Journal of Agriculture and invincimment for hierarisation Development, 104 (21-2):23.	Journal Paper
Bangladesh Flood-prone areas agriculture	Government BRRI	Community Farmer	new crop variety	Submergence tolerant rice varieties of BRRI dhan51 and BRRI dhan52. These submergence tolerant varieties can sustain 12-14days under water	Production of rice in flood-prone areas	winter season. Detailed information is absent	Taking Yes N/Av action/implenting	Since 2010	Reactive No	yes Flood	To enhance crop production to feed the growing population	agro-environment.	No Yes Reduces	flood damages Yes	Increased crop production increases people's income and ensures food security No		Iva, SS. (2014), Technology Transfer for Food Security in the Context of http://webcache.googlevuercontent.com/search?qr:ache.http://exijournah.net/index.php/545/article/download/7971446; Dimate Change: A Case Study of Bangladesh, Journal of South Xian Studies, 2	Journal Paper, Report
Bangladesh Coastal areas agriculture				Submergence tolerant rice, Opportunity for crop production in submerged condition during the flash flood	Binadhan-11 is a submergence tolerant early maturing rice variety for aman season.	In submerged condition, potential yield is 4.5 t/ha (average 4.2 t/ha). This variety is capable to produce 5.0-5.4 t/ha in non subme condition.	action/implenting	Since 2013	Reactive No	yes flash floods	N/Av	No	No Yes Submerg	gence tolerant rice reduces flood vulnerability Yes	Increased crop production increases people's income and ensures food security No		(B no. 275-29-34 (B n	Journal Paper, Organization Website Reporting
Bangladesh Khulna agriculture		Community Farmer		Saline tolerant sunflower. Opportunity for crop production in the dry period in salinity affected areas	Cultivation of Hysun-33, a saline tolerant sunflower variety, which is now largely cultivated in the coastal areas of Bangladesh	Total 197 tons of sunflower has been cultivated in 155 hectares land area in last 3 years	change Taking Yes N/Av action/implenting change	Since 2011	Reactive Yes salinity intrusion limiting crop production in dry season	No	N/Av	No	No No		Increases people's income and improves socio-economic condition. Reduces vulnerability by improving food security, dry season agriculture ensures safety of production, these increases system resilience		(1) pp. 275-2943 Khing, M.G., Sha, D., Kahir, T., Nahler, T., Mallina, S. and Mondal, M.S. (2015). Achieving food Security in Strom Surge-prote Coaral Policy of South West Bandelsch. SWMS 2014 Vol. 124 e. 24 Bandelsch. SWMS 2014	Journal paper
Bangladesh Coastal areas agriculture	Government BRRI	Community Farmer	new crop variety	Saline tolerant and submergence tolerant rice variety of Binavail. These saline and submergence tolerant variety is cultivated during the Aman season	Production of rice in salinity affected, flood prome areas	Detailed information is absent	Change Taking action/implenting thorein	Since 1987	Reactive Yes salininty intrusion	yes Flood	To enhance crop production to feed the growing population	Yes Ecosystem is likely to get affected. HTWs for drinking water and village ponds for subsistence use may also get affected.	No Yes Reduces	s flood damages Yes	Increased crop production increases people's income and ensures food security No		Banglender, SAWKS journal, Veil, Juwe 1, 16-42. Banglender, SAWKS journal, Veil, Jiwe 1, 16-42. Banglender, SAWKS journal, 16-42.	Report, Organizational Website Reporting
Ghana Lower volta basin of Ghana agriculture		South district		Drought / disease resistant traditional crop, pepper. Size of matured spice of pepper has reduced and the life span of crop from 2 years to only about 8 months.	local varieties of seeds are resilient to drought and disease. increase in income to meet subsistence needs in most of the households in the communities.	ce farmers are able to plant and harvest in large quantities	Taking Yes no action/implenting	recent	Reactive yes drought and disease	No	construction of hydro-power dam	NA	no No N/A	yes	farmers are able to plant and harvest in large quantities, income supports families no		Apivor, J. S. 1999. "Small Former Management of Floodplain Disturbed by Damming: Care Study of the Lower Volta Basin of Ghana", (Uspublished Mphill Trained Ublisherine (Korea Lanco.	Unpublished thesis.
Bangladesh Coastal Areas, Sharlatpur agriculture	Government BRRI	Community Farmer	new crop variety	Saline tolerant rice varieties of BRRI dhan40 and BRRI dhan41. These saline tolerant varieties are cultivoted during the Aman season and they can tolerate salinity up dS/m during the reproductive stage.	up to 8 Production of rice in saline areas	Detailed information is absent	change Yes No action/mplenting Yes No	Since 2003	Reactive Yes salinity intrusion	No	To enhance crop production to feed the growing population	Yes Ecosystem is likely to get affected. HTWs for drinking water and village ponds for subsistence use may also get affected.	No No No	Yes	Increased crop production increases people's income and ensures food security. Reduces vulnerability by improving food security, dry No season agriculture ensures safety of production, these increases system relifence		Thesis Unversity of Guan, Legon. Mitp://brir.portal.gov.bd/sites/defaul/files	Website Reporting
Bangladesh Khulna, Satkhira and Noakhali agriculture	Government DAE	Community Farmer	new crop variety	Cultivation of saline tolerant variety of make, sesame and soybean. These saline tolerant variety is cultivated during the Rabi season	Production of malze, sesame (BARI til-4) and soybean in saline areas	Detailed information is absent	Taking Yes No action/implenting	since 2010	Reactive Yes salinity intrusion	No		Not clear	No No	Yes	Increases people's income and improves socio economic condition. Reduces vulnerability by improving food security, dry season agriculture ensures safety of production, these increases system resilience		Sluder, M.T. (2010), The Impacts of Climate Change on the Coastal Belt of Bangladesk: An Investigation of Naks. & Adaptations on Agricultural Sector,	Evaluation Report
Bangladesh Coastal areas, Satkhira district CZM	Government Ministry of Wat	ater Community Local Communit	polder construction	13,600 m polder construction in the urban areas of Sathhira district	Reduction of flood risk and drainage congestion problem	Improved flood and drainage condition is crucial for sustainability of environment and livelihood in Satishira district	change Yes N/Av	Since 1988	Anticipatory Yes	No	N/Av	Yes Drainage congestion and soil salinity problem in embanked areas	N/Av Yes Protectio	on from flood and storm surge No	Decreases overall vulnerability, improves drainage, protects from flood, increases dry season agricultural activities and increases food Yes	Improved DRR, reduced vulnerability (through improved production),	Proceedings of International Conference on Environmental Aspects of Bangladerh (ICEAB10), Japan CCC (2014), Proceed Rolfa 2013-2014: Protect ID: 166. Protection of http://www.adb.org/sites/default/files/linked/documents/45084-002-ban-oth-01.odf:	Project Profile, Working
Bangladesh Noakhali CZM	Government	ater Community Local Communi	nd	Construction of 2 vent, drainage suice and construction of retired embankment and re-sectioning of embankment	Comprehensive disaster management	Saves certain coastal region from cyclone, storm surge, flood etc.	action/implenting change Taking Yay M/Ar	1 107 20 1007-	Reactive Yes Coastal zone is always prone to natural disasters like	No	Food zeruption terror	Yes Drainage congestion and soil salinity problem in embanked areas	N/hr -	lood and rallog water interview in	security Prevents salinity and drainage congestion, increases agricultural production and people's income, thus ensures food security No	improved economic condition; Risks: No risk misconception, inadequate or lineard risk communication to public (e.g., facilities are not made flood proof nor flood resistant cropping practices adopted with the misconception that structures are flood risk free).	Jikogeba Kwa finin Rood and Diniage Congettion Problem for Kobask http://www.appdic.com.bl/u/Th=tik-tri-like_texture.ukource-web&d-7&wed-baNUKEwp/w0/Th+q7HAVYEQPOHu/ Ministry of Environment and Forrest. Ministry of Environment and Forrest. http://www.appdic.com.bl/u/Th=tik-tri-like_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu/ Burgen/X2Fillet_download_2.pht/SFIGUEC BCCT (2014b), Project To-11b, Rehabilitation of http://www.appdic.com.bl/u/Th=tik-tike_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu/ Http://www.appdic.com.bl/u/Th=tik-tike_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu/ Http://www.appdic.com.bl/u/Th=tiket_tike_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tike_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tike_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tike_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tike_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tike_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tiket_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tiket_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tiket_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tiket_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tiket_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tiket_tiket_texture.ukource-web&d-7&wed-baNUKEwp/W0/Th+q7HAVYEQPOHu- Http://www.appdic.com.bl/u/Th=tikexture.ukource-wbd/u/Th=tiket_texture.ukource-wbd/u/Th=tiket_textu	Paper, Journal Paper
	Resources		construction/improvement				Taking Yes N/Av action/implenting change	Last to posts	Reactive Yes Coastal zone is always prone to natural disasters like cyclone, storm surge and coastal flood.		2 Marca and and a second a salar		res Risk of It	Yes			Polder No 59/3C in coastal areas Protection Belt for Reducing Climate Change CuOQFgb1MAY&url=https/i3AKJ2FN2Fiptc- Effect (in Bengali), Bangladesh Climate Change Trust, Ministry of Environment wg2.gov/k2Fnjlkt_download2.phpN3Fid%3D11088&kuge=AFQ/CNGGXCV12FFgahjUrNliijMegMCnmQ&bvm=bv.108194040,d.dGY&cad=rja;	Project Protile, Working Paper, Journal Paper
Bangladesh Khuina and Satkhira districts WRM	NGO Various NGOs	Community Household	Pond sand filter (PSF)	pond sand filters. Contaminted pond water is purified	Potable water		Yes N/Av	Unclear	Reactive Yes Salinty; drought	no	Arsenic	Yes Difficulties in washing the filter beds cause water quality deterioration-	No not stated No	Yes	Provision of safe drinking water No		and Forest, Aberly, M.A., Habito, U., & Shaw, R. (2014). Community Perception and Adaptation to Safe Driving Water Sarchy: Saling, Arenei, and Drought Kink. Cosstal Bargingkeh. International Louis of Dostar RNA Science, S.	Journal Paper
Bangladesh Coastal zone, particularly in WRM Satkhira, Khulna, Bagerhat and some parts of Barguna districts	Government DPHE/UNICEF	Community Household	Pond sand filter (PSF)	In the high saline costal zone of Bangladesh, especially in the districts of Satkhinz, thuma, Bagerhat and some parts of Banguna, people suffer from the scarcity of di water particularly in the dry season when salinity level goes higher both in suffer and sub-sufface water sources. Under the current phenomeneon of Jintare Chang problem is further graveted particularly life in the true cycleon is 2007 and 2005. Communities in such places collect drinking and cooling water from pools and	drinking Water for drinking and cooking see the set of	People in high saline coastal zone suffer from the scarcity of drinking water particularly in the dry season when salinity level goes higher both in surface and sub-surface water sources. The problem has been further aggravated after the two cyclones in 2020 an 2020. To meet their drinking and cooling water requirements, local committies use water from pool sand filter facilities.	s Taking Yes N/Av action/implenting change	Last 5 years	Anticipatory Yes Salinity level in both surface and groundwater goes highe in the dry season. During this period, people suffer from the scarcity of drinking water.	r No	Arsenic in groundwater	Yes Difficulties in washing the filter beds cause water quality deterioration	No not stated Yes Bisk to dr	drinking water is reduced Yes	Provides safe drinking water, reduces time of water collection and increases people's productivity and income Yes	Increases safe water supplies, improves health and hygiene and thus improves resilience Flood proofing and similar measures increases over the resilience and Tool	110-124 Adebit, M. A., Habba, U., & Swaw, R. (2014). Community Perception and http://www.costalia.coperation.net/part-III/II-3-3-4.pdf, http://inik.poinger.com/articl/10.1007Xi3F13753.014-0021-6; Adaptation to Safe Diroking Water Sacristy, Saling, Arenic, and Dought http://www.ube-fub.bl/articl/efstaul/files/journal_files/4_ferdiou_file_Science	Book Chapter, Journal pape Conference Proceedings
	Government Ministry of Loca Government, R	cal Individual Household Bural	post disaster support	protein is nume aggravato particularly after the two cyclones in 2007 and 2009. Communities in such paces collect anniking and cooling water from point sand 1 Construction of 125 houses for ultra poor people who lost their belongings in natural disasters	Shelter provision for the poor people through housing rehabilitation	2009. I o meet their orinixing and cooking water requirements, local communities use water from pono sand titler facilities. People who lost their everything in natural disaster and can't afford housing will be rehabilitated according to priorities	Taking Yes N/Av action/implenting	Last 20 years	Reactive No	Yes Cyclone is a sudden event	N/Av	No	N/Av Yes Protectio	on during disasters Yes	Reduces house damage due to disaster No		nick in Casta Langbach, menntonia Journa dr Usater intel Senter, S. 11. [J.35], Um M- 2015-964-961 [10] 24 RCCT (2014), Projet: Profile 2013-2014, Projet: ID: 154, Construction of <u>Http://fisbachementel.org/up-content/uploads/Plagping-Study-Climate-Displacement-Bangbach.pdf</u> Http://fisbachementel.org/up-content/uploads/Plagping-Study-Climate-Displacement-Bangbach.pdf	Project Profile, Policy Pape
	Development a Co-operatives	and					change Building capacity Yes No										Climate Change Trust, Ministry of Environment and Forrest.	
Bangladesh Entire country research Bangladesh - SE Khulna district aquaculture		Community research comm	ity research - climate impacts on rice/wheat research - using GIS to locate	Research activities using DSSAT model. Determination of the impact of changed climate on rice and wheat using DSSAT model Coab farming as it is less susceptible to disease, easier to culture, more resistant to adverse environmental conditions than shrimp farming. It has a high commercial	Knowledge enhancement about the impact of climate change on cereal crops	Detailed information is absent Farmers are transferring to crab farming as it is less susceptible to disease, resistant to adverse environmental conditions and has	Building capacity Yes No	Since 2013	Anticipatory No Reaction under under	Yes Changes in temperature and rainfail pattern may affect th cereal crops which can be harmful if no prior knowledge preparation unclear unclear	he N/Av and	No	No No	Yes	Improved knowledge would contribute to better anticipatory adaptation path. Increase system resilence and reduce vulnerability No Invelhood diversification, income generation No		Baak, JL, Thamir, R.A.M., Biowa, JL. and Mohinzazamu, M.(2013). Impacts <u>Impl/eww.hangland.info/index.phg/101/artic.id/sewrload/208771438</u> of resporture and chron doxide on Rev gind in Ranglands. Palaglands <u>Info/index.phg/101/artic.id/sewrload/208771438</u> <i>Rev Journal</i> 211632: 15-55 Saham M. A., Haim, S. M. Gao, JL, & Roys, L. (2012). Code collarer potential <u>Inter J. Press. 2116</u> 2: 15-56	Journal Paper, Study report
	Agricultural University	community insters	sites for crab cultivation	and market price both locally and internationally and can provide a new source of income for coastal fisher folks. GIS can help locate suitable sites.		good market price. Crabs are the second most exported crustacean products from Bangladesh, and the crab fishery supports the livelihood of more than 50,000 fishers, traders, brokers, transporters, and exporters.	s a chiang change	NOLITIGEARS	Reactive Unitiear Unitiear	uncear uncear		NO	nu nu	162			adaption. International Research Journal of Applied Life Sciences, 1(4), 5-31.	Journal naper
Bangladesh Coastal areas, Khulna-Jessore WRM	Government Bangladesh Wa Development B		Reservoir construction for conservation of drinking water	Reservoir construction for conservation of divising water	Availability of drinking water during dry season	increases capacity of reservoirs to avoid scarcity of drinking water during critically low flow periods	Taking Yes N/Av action/implenting Change	Arenic in groundwater above 50 µg/L (Bangladesh standard f Drinking Water) was found in 61 districts out of total 64 distri in Bangladesh. But using effective arencir removal methods, arsenic contamination in water satisfying the Bangladesh Standard (50 µg/L)and satisfying WhO guideline value (10 µg/	icts	No	N/Av	No		s drinking water scarcity during dry period and Yes s drinking water supply during disaster times	Provides safe drinking water, reduces time of water collection and increases people's productivity and income Yes	season), flood proofing improves DRR and increases system resilience	Abedin, M., A. Hohba, U., & Swaw, R. (2014). Community Preception and Adaptation to Safe Drinking Water Scarcity, Salinity, Aramic, and Drought Risk in Costal Bangkalen. International Journal of Disaster Risk Science, S: 110-124	Book Chapter, Policy Rep
Ghana Dayi basin WRM	International ADAPTS NGO	Government people of Dayi b	sin riiver basin management	development of a Bioin plan for the Dayl Bioin and a Bioin management Bioard	The Dayl Basin Board (DBB) was officially established in July 2010, being the fourth of its kind in Gha at the time. In line with foldial legislation the DBB has a consultative and advisory role – with regulation and implementation unataban through the concerned specialized agencies. IT methe and strong representation of grass root people	hand draft Bain Plan was prepared in December 2011 by the WRC and the ADAPTS team: plan also makes the point that if irrigation is take off in the bain more storage would need to be created especially in the tobulantes of the Day Bain (Eponde and He) that an done to giving up in the day seasar, and non new seved meta-to be made of goundwater, as this buffers the high flows. The forther mentions the need to continue to protect the catchments.	are	respectively since 1995.	Anticipatory Yes drying trend and rising termperatures	Yes floods	Dayl Basin is recently settled for agriculture - farmers come from other parts of Ghana, i.e. agricultural fromt movement challenges: deforestation of catchment /expansion of farm land along river banks, resulting in bank erosion. Slash and burn agriculture is practised in comparatively small area	ier	Demacat floods; Er manital	ommends: Develop early warning systems; Yes ate flood prone areas to minimize the impact of Enforce regulations of activities near river banks— a minimum distance of 50 meter to protect the d reduce risk of flood damage	disposal – including measures such as toilet facilities and disposal sites	plan notes: if irrigation in basin takes off more storage needed in the tributaries of the Dayl Basin (Kpando and Ho) that are close to drying up in the dry season, and/or more use of groundwater, as this buffers the high flows. The plan mentions need to continue to protect the catchments.	Meta, M., and van Steenbergen, F. (2012). Evaluation report ADAPTS. Both http://www.bothends.org/uploaded files/document/121136 ADAPTS evaluation report FINAL.pdf (305, Amsterdam The Netherlands.	Grey
Bangladesh Southwestern Water logged areas Agriculture/Liv elihood	Government Not in details	Community Poor farmers	Ring-Based Vegetable Cultivatio	Ring-based vegetable cultivation in water logged area is relatively new concept. The land is usually inundated all the time, which is an obstacle to vegetable product combat the situation, ring-based vegetable cultivation is one of the best solutions.	tlion. To Increased household income and food security	Pumpkin, Gourd, Spinach, Chill, Balaam Apple, and other vegetables are cultivated in the ring-based system.	Taking Yes No action/implenting change	2007-2008	Reactive Yes Water logging	No	No	No	No No	Yes	Helps produce vegetables for family needs, allow people to sell excess vegetables for income, preserve local sed varieties and support. No local climate change subplation.		Idam, A. & Sumon, A. (2013), Integration of Climate Change Adaptation. Deater Risk Reduction and Social Protection in Bangladesh: Contemporary Views and Experiences, Shaw, A., Mallick, F., & Islam, A. (ed.), Climate change adaptation action in Bangladesh: Tokyo: Springer.	Book Chapter
Ghana Dayi basin WRM	International Development NGO Institute (DI), G	Community farmers of Woa Ghana Vakpo and Gbet	e, river bank management	Plant trees (Ddum, Semania semi, Mahogany (Khayasenegalensis), Orram, and Gashinapp.) and vertiver strips to create a protective strip along the river bank and pr future encouchment. The seedlings were made available from the project and the vertiver was sourced from vertiver nursery of DI at Valpo	agro-forestry buffer along river. Farmers groups and landowners will share profits from agroforesty	ty The buffer strip planting is advised as an important measure and is also endorsed by a National Policy. In Woadze and Valp the buffer strip is maintained but there is no up-scaling yet.	po Yes No		Anticipatory Yes drying trend and rising temperatures		Dayi Basin is recently settled for agriculture - farmers come from other parts of Ghana, i.e. agricultural front movement challenges: deforestation of catchment /expansion of farm land along fiver banks, resulting in bank erosion. Slash and burn agriculture is practised is comparatively small area	ier	No No No	No	Yes	managing wider environment (river banks) through agro-foresty, with community use, to ensure impacts off climate change not experience	Meta, M., and van Steenbergen, F. (2012). Evaluation report ADAPTS. Both http://www.bothends.org/uploaded files/document/121126_ADAPTS_evaluation_report_FINAL.pdf	Grey
Bangladesh South-west Bangladesh, Comilla WRM district	Government Ministry of Wat Resources	ater Community Local Communit	River dredging	Re-excavation of river canal: 1.0.8 km	Environmental balance	People of Bangladesh are heavily dependent on ecological services e.g. irrigation, navigation, fisheries offered by rivers	Taking Yes N/Av action/implenting	Last 20 years	Reactive Yes	No	N/Av	Yes Increase in the level of suspended sediment gives rise to changes in water quality which effects marine flora and fauna, both	N/Av Yes Risk of ov	vverbank flooding will be reduced Yes	Yes	Reduction of environmental degradation will enhance ecological and environmental balance, reduce vulnerability (sustained production	BCCT (2014/d), Hoject Porlie 2013-2014; Project ID: 150, Rehabilitation of Imbankment Through Pala siding and Pond, Increase of Food Production,	Project Profile, Journal Pap
							change					favorably and unfavorably				reducing shocks), promote sustainable development Highly dependent on the sustainability of the scheme.	Suppl of Anexic free Water, Contrainage System at Eight Upaulia in Chandpur District for Reducing Climate Change Risk (in Bengeli), Bangledeck Climater Change Trat, Ministry of Environment and Forest.	
	Public Health		affected people	Safe water supply for disaster affected people through installation of water treatment plant	Installation of 50 mobile water treatment plant	Detailed information is absent	Taking Yes N/Av action/Implenting chanae	Since January 2013	Reactive Yes	No	N/Av	No	problem	water treatment plant reduces safe water scarcity No a after natural calamities		water),flood proof an thus increases system resilience	RCT (2013c), Project Profile; Project (D: 103, Safe Water Supply for Disater Affected People due to Climate Change, Bangladesh Climate Change Trust, Ministor of Environment and Foresta.	Project Profile, Journal Pap
Bangladesh Satkhira and Munshiganj districts Fisheries	Government Not in details	Community Farmers	Saline tolerant fish cultivation	People of the coastal area cultivate saline tolerant fahes as adaptive livelihoods options. This include some species like tilapia (monosex mainly) and pangus mainly.	y. Development of social and economic condition	The Department of Fisheries (DoF) has established saline water tolerant fish breeding in Pallgachha few years back and expected innovated and produce sapings of fishes tolerant to high level salinity. Some people enter sapilings of gubte tengra, bata, vetik, up in the gher with the rive water, which grow naturally and farmers havered thread for household consumption and commercial pure		Not in details	Reactive Yes Salinity	No	No	No	No Yes Increase	saline tolerant fish cultivation Yes	It provides environment friendly livelihood option. No		Monistry of Environment and Forest. Muddins, S. M., & Mannaw, K. F. (2013). Unknowshithy to Climate Change and Adaptation Practices in Bangladesh. Journal of SUB, 4(2), 25-42.	Journal Paper
Bangladesh Juidondi in Anowara upazila of CZM Chittagong district	Government Bangladesh Wa Development B	ater Community Local Communit	sea dyke repairs	Repairment of sea dyke in coastal polder for bank protection at the bank of Sangu river	Bank protection at right bank of Sangu river	as well Detailed information is absent	Taking Yes No action/implenting	N/Av	Anticipatory No	No	N/Av	No	No Yes Prevents	s flood and salinity intrusion No	Yes	Improved DRR, reduced vulnerability, Risks: Risk communication to public is often flawed, may reduce resilience due to notion of risk free	RCT (2010b). Project Profile; Project ID 31. Protective Works along with See https://www.google.com.bd/unf?a=t&ct:j&q=&esc=:a&source=web&cd=?&eod:ubiUE(wg)&vofNeqDHAVE(agTRNU- CGU2FgAMAVEau+https:KAMAUSPA2Fgccc 40/A. Bangdated: Insten Change True, Ministry of Environment and wg.goox/Parigite equivalualizational and an an and an an and an an and an	Project Profile, Working Paper, Journal Paper
INDIA North 24 Parganas (Block Name: Alingaigani) & South 24 Parganas (Block Name: Patharparatima), West Bengal Sundarbans Delta	Local NGO Development Research Communication Services Centre	farmers communities in	Seed Bank and Seed Exchange and S Network	The phase focuses on creating awareness, standardise the package of practice and make the seed bank self austained through marketing initiatives and involve more fammers who will be growing these vegetable in the locality. Among the several initiatives undertaken, Creating Seed Database, Group meeting with line/welf fammer bank. Campaign through will righting, leaflet and notices in prominent space like Parchayet, Ration shops etc., Roater in each hank going to the weekly market to the accessibility, Orade workshop in each octation on each packet on make make it more attractive, sure friendly with opper information. Secting few section the accessibility. Orade workshop in each octation on seed packet on make more it more attractive, sure friendly with opper information. Secting few section	ers of the Increased access to seed bank; 4. The acceptance will be increased with good packaging; 5. 10		change Taking Ves Undear action/implementin g change	2009-2011	Reactive no	yes salinity, waterlogging, cyclone		No Not specified	Tradition	ailability after disasters. The cultivation of the Yes nal Variety of Grains and Vegetables would help the resilience and self sufficiency	diversified portfolios of grains and vegetables provide a diversified livelihood not specified s		 bit // Example and induct sharp in the minimum and provide a start of the minimum and th	Online Report
(ISD)	(DRCSC)			seed bank which are grown in the saline soil and trial in the controlled seed plot in various saline concentrations. In Sunderban, the crop choices has reduced drasti after AILA due to salinity of the soil. 2 new seed banks in Brajaballavpur and Shibganj, both in Sunderban, will be created.	Creation of 2 new seed banks.													
Bangladesh Coastal areas, Chadpur district WRM	Resources				Supply of pure drinking water	Detailed information is absent	action/implenting change	N/Av	Reactive Yes Lack of pure drinking water	NO	N/Av	NO	NO Yes Provides	s onnking water supply during disaster times Yes	Reduces health vulnerability from pathogens, may increase vulnerability in presence of arsenic No	has the risk of arsenic pollution which will reduce resilience of people	SECT DD104). Project Profile 2013-2014. Project 1D 131. Inframarchanal bitts://formine.net.ac.bd/2013/Contents/Technical%20Pagess/Poster/L20Seasion/HT-P11.pdf Development of Segmet Postasets ID 132. Elimitatory of Environment and Format.	Project Profile, Thesis
India Four sample villages (Jambu and agriculture Mangalpur from Mahakalpara block and Gupti and Sanwara from Rajnager block), Kendrapara district of forisa,	Households	Community	Shift in livestock composition	A shift from cattle/ sheep to goat/buffalo has been observed in recent years. Goat / buffalo are considered more hardy than sheep and cattle. Farmers keep more type of animals to compensate losses during severe droughts or floods, as different animals respond differently to the various environmental conditions.	than one		Yes No	Unclear	Both No anticipatory and reactive	Yes Flood; drought			No No	Yes	Provides more income sources No		Terrest. Vulnerability to Climate induced Natural Disaters with Special Emphasis on Caping Strategies of the Rural Poor in Coastal Onisia, Indiat B. C. Roy, Minthyunjipe, and S. Selvarajan	Non-peer reviwed lit
	Individual N/Av	Individual Household	Shifting of house	Shifting of house at a safe distance from river in case of moderate river ension	House shifted in a less erosion-prone area	Detailed information is absent	Taking No N/Av action/implenting	N/Av, but people have been practicing this since long before	Reactive Yes People shift their houses when they are on the verge of erosion	No River erosion is usually not a quick-onset phenomenon	N/Av	Yes Fertile agricultural land is likely to go out of agriculture	Yes Permanent migration in case of severe erosion is documented as an adaptation practice No	No	No	Resilience do not increase	Definite mentional (2009), Climate change adaptation practices in thirry apro- tings://www.crited.org/2014/2014/2014/2014/2014/2014/2014/2014	2%3A%2F Study Report
India Nayagarh district of Orissa livelihood	Government Government	Community All the village	Short term & Long term	Storage of day food and medicines, work in other villages, crop insurance, migration, protect livestock, building flood resistant houses, building floodwall around houses, buil	puses, New building		change Building capacity Yes Not Specified	N.A.	reactive Yes Climatic events (Flood)	No N.A.	not specified	NA NA	Yes Not Specified Yes By storing	ng dry food nad medicines, croop insurances etc. Yes	By building flood resistant houses and floodwalls around the houses Yes	N.A.	Mirza, M., Climate Change, Adaptation and Adaptive Governance in Water http://www.2007amsterdamconference.org/Downloads/AC2007_Mirza.pdf	Paper
	Sangstha	nirvar Community Children, Wome		The boats collect students from riverside villages, dock at a final destination and provide on-board small-group instruction. After class, the boats take students back homes and then so on to pick up other eroups. Each boat school has a classroom for 30 students, an internet-linked batop, a library and electronic resources, and c	provides	Almost 70,000 children have been benefited since the start of the project in 2002	Taking Yes Yes action/implenting	Since 2002	Reactive Yes Due to flooding of schools, children couldn't attend classe regularly and their studies were hampered	is No	N/Av	No	No No	No	Yes	Improved education and literacy, increased adaptive capacity	Sector in South Asia, University of Toronto at Scarbonough Hoque, S. and Moore, E. (2009). Floodspace: Case Studies in Adapting to Timate Change-Reinet Foldorign in Braijscheit, The International Tell Reinted, Floodspille, Neuk/2403:13027.24837941559.pdf; http://www.wise.edut.org/solaropewerd-foating-schools-bangded- Timate Change-Reinet Flooding in Braijscheit, The International Tell Reinted, Flooding, In, Banglides/Nieks/P403:13027.24837941559.pdf; http://www.wise.edut.org/solaropewerd-foating-schools-bangded-	Journal Paper, Report
Bangladesh North Char, the Mid Char, the Agriculture/Liv Haor belt, and the Cox's Bazaar coastal area, covering 11 districts, 30 upaailas, and 172 unions.	International CARE Banglade:	esh Community Community	Strengthens households capacit	nomes and unrel go in to pick up doel groups. Each ook shoch had a classion into so autoens, at memery mane spope, and any and execution. Evaluate, any a stack primary execution to be praceful or The project is attempting to address not only the availability, access and utilization issues that lead to food insecurity, but also the underlying issues that contribute vulnerabilities, such as a lack of participation, social injustice, and discrimination that prevent people from realizing their full potential in leading healthy and produc lives.	e to Women empowerment	It is a bottom up method of empowering some of the poorest and most marginalized populations of Bangladesh to meet their b rights.		Since 2001	Reactive No	Yes Flood, cyclone, drought	No	No	No No	Yes	They can develop their socio-economic conditions by sdapting these options. These options will also make them aware about the No climate change impacts.		Charact Character Scholler, and Berglander, I.B. Biernhaustan Andrian volume in ander Proceeding in Exploration (Exploration and Scholler Scholler, Scholler	Report
	Government N/Av	Community Household	Temporary shelter	People take shelter in school & college buildings and on nearby high lands (river embankment, road side, etc.) or in flood shelters during tidal surge and flood	Temporary shelters save from flooding	Detailed information is absent	Taking Yes N/Av action/implenting change	N/Av	Reactive Yes N/Av	Yes In case of tidal surge, it is a sudden shock	N/Av	No	Yes Migration to urban areas is documented as an adaptation practice Yes Rood and	nd tidal surge risks are reduced Yes	Reduces risk of people's death No	Improved DRR, Vulnerability reduction limited (livelihood affected and have to resort to coping), no build up of resilience capacity	Dafam international (2009). Climate change adaptation practices in thirty agro- https://www.csbd.org/ki/Treources/Laf-Lamatechangerki/Zafo, _downloadf12460 fluari-epot-on-climatechangerki/Zafo (Lafa) of Bangladesh, Riul Report, Jahangimagar University, Diska Diska	//i3A1/i2F Study Report
Bangladesh Hari River Basin, southwest agriculture Bangladesh	Local NGO Utteran	Community	Tidal River Management	Around 650 hectares of land on the Hari River Basin has been raised by 1.5m over a one-year period by allowing land to be flooded by tides. This brings in sediment Community must agree on flooding management plan as landowners cannot use land during flood.	raised land to protect from erosion		Yes Unclear	since 1930s - but more recently promoted as cc adaptation.	Both Yes Waterlogging; sea-level rise anticipatory and reartice	Yes Flood	No	No	No No	no	Yes		Sterrett, C. (2011). Review of Climate Change Adaptation Practices in South https://www.oxfam.org/ites/wwww.oxfam.org/ites/www.oxfam.org/ites/www.oxfam.org/ites/wwww	report
Bangladesh Khulna CZM	Government Bangladesh Wa Development B	ater Community Local Communit	Tidal river management throug construction of embankments	Solution of over bank flooding during rainy season	Protects bankside area of river Chitra and Atharobaki from flooding	Detailed information is absent	Taking Yes No action/implenting	Since 1960	Anticipatory No	No	Social pressure	Yes Water logging problem in low land areas	No Ves Reduces	i flood risk No	No	Short term DRR, short term reduction of vulnerability through increased food production, reduces overall resilience due to drainage	Rhman, M.M. and Islam, A.[2013]. Adaptation Technologies in Practice and http://link.springer.com/chapter/10.1007/5/2578-4-413.5438-0.168page-1 Future Potentials in Bangladesk, Chapter LS, R. Shaw et al. (etc.), Climate	Book Chapter
Bangladesh Satkhira district (Protapnagar Forestry	Government Government			The Kewra (Sonneratia apetala) plants are usually cultivated on saline soil or around the ridges of a prawn culture area or in the premises of homesteads. In the	Improved natural wind breaker to protect coastal communities.	It acts as an environmental protector, such as wind-breaks and soil protector against erosion in the coastal region	Taking Yes No	2008	Reactive Yes Salinity	Yes Cyclone	No	No	No Yes Actazo	wind-breaks and soil protector against erosion in Yes		congestion in the long run and misconception of flood risk free zone	Change Adaptation Actions in Bangladesh, Disaster Rick Reduction, Springer Japan Siam, A. & Sumon, A. (2013), Integration of Climate Change Adaptation, <u>http://www.springer.com/us/book/9784431542483</u>	Book Chapter
Union of Assasuni Upazila under)	agencies		Tree planting: Wind breaker	project, Kewra plants were cultivated near the river beach. The Kewra is used for multiple purposes. It is a high temperature tolerant crop. It is one of the ploneer crops of accordary forest. Bamboos uphold ground water table and bamboo clumps are considered a		Bamboo is an excellent crop for Climate Change Adaptation - should be brought under massive cultivation across the country as i	action/implenting change it can Taking Yes No	More than 3 thousand years back	Reactive Yes Rising temperature	Yes Cyclone	No	Yes Some times wild fire starts from abrasion of bamboos.	the coast	g vulnerability from natural hazards Yes	details Bamboo is a very fast growing wooderful natural resource suitable for climate charge adaptation by converting atmosphere: CO2 into No		Dataster Rikk Reduction and Social Protection in Bangladerho. Dottemporary Verse and Experiences, Song, Maldill, K. R. Baina, A. (eds.), Elimate change adaptation in Bangladerh. Takyos Springer. Homans, M. A. et Bahmas, S2013, Malang, et Relational General Http://xe.ebs.cdn.com/2221294715000027/1-10.5221294715000027/main.pdf? 1td=4blad=90-9157.11sd-bbee-	Journal Paper
Bangladesh South-west Bangladesh, Chandpur WRM district	NGO		bamboo tree	sanctuary of birds and rodents.	Increased crop production and better drinking water	esuly mitigate global warming. Increase in food productivity, ansenic free water supply	attori/mgening change Taking Yes N/Av attori/mgening change	Last 20 years	Anticipatory Yes N/Av	No	N/Av	Yes Arsenic contamination and iron problem			biomass, keeping water table up, controlling erosion, acting as strong windbreaks and reducing storms and cyclones. Reduces health unlinerability from pathoeens and arsenic Yes	Reducing disease subscrability (from pollution) productivity increase	Indextraints trends: Clinitian initia in castal aroo of langulation, Weath 2000/castal/06.deactions:144444232_1816b6/27421515.sdffk?0c12825sc0866, http://feacher.bust.ac.bd/akmail/sliani/publication//6-ID_155_CC RCCT 001646, Project Profile 2013-0024, Project ID 150, Rehabilitation of Initianiantem Through Valding and Province of Cost Initianiania 2015-6672-6424 2015-6672-6425 2015-6672-642 2015-6672-6425 2015-6672-642	CWFM- Project Profile, Journal Pag
Bangladesh Coastal Areas surrounded by WRM	Government BRRI	Community Farmer	Water conservation on rivers	Use of tidal nature of rivers in coastal areas for irrigation during the boro rice cultivation period in saline prone areas	Production of boro crop in coastal areas during the dry season	Conservation of river water by using sluke gate, pond as reservoir or canal during the rainy season	Taking Yes N/Av	N/Av	Reactive Yes Due to high salinity, crop production was not possible during the during th	No	N/Av	Yes Ecosystem is likely to get affected	No No	Yes	Increases crop production and people's income, ensures food security Yes	Increases Irrigation water safety, reduces vulnerability to climate	Haque, S.A. (2006). Salinity Problems and Crop Production in Coastal Regions http://www.knowledgebank-brri.org/Rice_Production_Training_Manual/Day_2/Module_7/Factsheet%206-	Journal Paper, Organizatio
Bangladesh Khulna C2M	Government Bangladesh Wa Development P	ater Community Farmer Board	Water conservation on rivers	construction of regulators for tidal river management. Solution of salinity and water logging problem during wet season	Prevents saline water intrusion and provide adequate drainage facility during rainy seasons	Allow natural tidal movement into embanked low-lying beel for sediment deposition during dry season and increase of tidal prism	action/implenting chanae m Taking Yes No action/implenting	Since 1960	during the dry season Anticipatory Yes About 15000 ha of land remained water logged throughout the year for the last several years	No	N/Av	Yes Water logging problem in low land areas	No Yes Provides	s protection against salinity and water logging No	Vulnerability increased from water logging No		of Bangladesh, Pakitata Journal of Bangladesh, Pakitatata Journal of Bangladesh, Pakitatata Journal of Bangladesh, Pakitatatata Journal of Bangladesh, Pakitatatatatatatatatatatatatatatatatatat	Website Reporting Book Chapter
Bangladesh Satkira, Khulna district Knowledge	NGO Practical Action	n Community Local Communit	Weather Forcasting	Weekly forcasts provided to homes so they can prepare for weather/events etc			change Yes Unclear	since 2011	Both Yes Variability	No			No No .	Yes	Provides information on immediate threats so households can take action no no		Vizure roteman in angustek, Under La, k. Stale d'al. Les J, Linaze Change Adaptito Antonio in Bangladeh, Dupiter Rak Reduction, Springer Japan Parcial action Bangladeh, (2013) Weather Forecasting Board Http://practicalaction.org/community-based adaptation-in-witherable-coastal-areas	NGO report
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