



PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
	<ul style="list-style-type: none"> <li>• Operation and maintenance of meteorological equipment and accessories</li> </ul>	<ul style="list-style-type: none"> <li>▪ Repaired electrical system including connection to the standby generator at Tuguegarao Regional Services Center</li> <li>▪ Conducted repair/replacement of defective parts of CR at various offices of the Agency</li> <li>▪ Conducted the wiring installation (layout) of CAD cluster from power house to ICT room and installation of power distribution board of 10 KVA UPS at ICT Room - WFFC</li> <li>▪ Conducted repair/maintenance of temporary electrical commercial supply at NDRB building</li> <li>▪ Conducted the electrical wires installation (layout) of additional convenient outlet of Farm Weather Forecasting Office</li> <li>▪ Conducted the repair/replace/installation of electrical facilities at various offices of the Agency</li> <li>▪ Conducted routine preventive maintenance of the PAGASA C.O. building fire alarm system &amp; emergency lights</li> <li>▪ Rehabilitated/repared <b>18</b> agency vehicles</li>   <li>▪ Maintained <b>4</b> Weather Surveillance Radars at Aparri, Baler, Baguio and Guiuan</li> <li>▪ Repaired and maintained <b>4</b> Upper-air observation equipment and accessories at Tanay, Pto Princesa, Davao and Legaspi Stations</li> <li>▪ Upgraded the <b>2</b> Upper-air equipment at Davao and Pto. Princesa Stations</li> <li>▪ Conducted routine calibration, repair and maintenance of <b>30</b> meteorological basic instruments at Surigao, Tagum, Davao, Bago Oshiro, Musuan, PAGASA Island, Aparri, Tuguegarao, ISU, NVSU, Baler, Casiguran, Cabanatuan, Munoz, Cebu, Sorsogon, Daet, Ambulong, Tayabas, Tanay, Virac Radar, Virac Synop, CDO, El Salvador, Hac. Luisita, Mambusao Agromet, Roxas, Iloilo and Science Garden</li> <li>▪ Repaired and maintained IRMOS equipment at NAIA</li> <li>▪ Installed <b>12</b> new wind equipment at Sorsogon, Tanay, Hac. Luisita, Mambusao, Roxas, Surigao, Tagum, Bago Oshiro, PAGASA Island, Baler, ISU &amp; Science Garden</li> <li>▪ Relocated/repared/maintained <b>2</b> outdoor meteorological basic instruments at Aparri and Virac Radar Station in preparation for the construction of Radar Tower Building under JICA Project</li> <li>▪ Rehabilitated the wind mast at CAPSU-Mambusao Agromet station</li> <li>▪ Fabricated <b>6</b> instrument shelters and installed <b>6</b> instrument shelters at Catarman, Dumangas, Roxas, Ambulong, Maasin, Tacloban, PAGASA Island, Aparri and Science Garden</li> <li>▪ Completed the Dismantling/transfer of meteorological observation insts./ equipment &amp; telecommunications system facilities from Cagayan de Oro to El Salvador PAGASA Regional Services Center</li> </ul>

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	<ul style="list-style-type: none"> <li>▪ Operation and maintenance of electronics and communications network at field stations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Installed 17AWS at different PAGASA stations</li> <li>▪ Provided assistance in the implementation of PAGASA Automation Project for the following sub-project:               <ol style="list-style-type: none"> <li>1) Aviation Weather Observation System – Installed at NAIA</li> <li>2) Automatic Weather Station - implemented the installation</li> <li>3) Wind Profiler Facility - Installed at Science Garden</li> <li>4) High Performance Computing System</li> </ol> </li> <li>Involvement of ETSD in the monitoring of the Agency's Infrastructure               <ol style="list-style-type: none"> <li>A) Construction of Transient Quarter building - for implementation</li> <li>B) Construction of 3rd level of WFFC (Phase I) - On-going</li> <li>C) Rehabilitation of Station building &amp; facilities:                   <ol style="list-style-type: none"> <li>1) Zamboanga - 100%</li> <li>2) Calayan - 100%</li> <li>3) Cuyo - 100%</li> <li>4) Baler - 24.88%</li> <li>5) Pto. Princesa - 90%</li> </ol> </li> <li>D) Construction of new Station building:                   <ol style="list-style-type: none"> <li>1) Sorsogon - 100%</li> <li>2) Romblon - 90%</li> </ol> </li> <li>E) Construction of new FFWC Station bldg. @ Pili - 90%</li> <li>F) Rehabilitation of Agno River FFWC Station building (Phase I) - 100%</li> <li>F) Rehabilitation of Baguio Radar bldg., facilities - 56.25% and perimeter fence - 100%</li> <li>G) Repair/improvement of Baguio Synop PAGASA extension office and Guest House - 100%</li> </ol> </li> <li>▪ Installed/calibrated 12 HF SSB radiophones/dipole antenna at PAGASA Is., Musuan, Puerto Princesa, Baler, Casiguran, Calapan, Tacloban, Borongan, Aparri, Tuguegarao, Dumaguete and Legaspi stations</li> <li>▪ Conducted the installation of 3 VSAT outdoor antenna at Hinatuan, Cebu and Tampakan</li> <li>▪ Conducted the VSAT connection of Baler to Forecasting Center</li> <li>▪ Installed 10 new HF/SSB transceiver including UPS and dipole antenna at PAGASA Island, DOST-Butuan, DOST VIII, DOST-Surigao, DOST-Iloilo, DOST-Cagayan de Oro, CAPSU, PSTC Tarlac State Univ., Dumangas &amp; Musuan under the DOST GIA "SSB Back-up Communication Project"</li> <li>▪ Conducted the repair of VSAT system &amp; installed UPS at Davao Station</li> <li>▪ Conducted the repair of VSAT connection of Baguio Radar to PAGASA WFFC</li> </ul>

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<p>3. Construction/Repair/ Rehabilitation of Typhoon Damaged Weather Stations</p>	<p>Civil works related to the construction/ repair and rehabilitation of typhoon damaged weather stations undertaken</p>	<ul style="list-style-type: none"> <li>▪ Repaired 3 solar power system at PAGASA Island, Baler &amp; Casiguran Stations</li> <li>▪ Rehabilitated the antenna mast system of PAGASA Island and Aparri Radar Station</li> <li>▪ Provided assistance in the implementation of Regional Center's connectivity &amp; upgrade of ICT equipment</li> <li>▪ Monitored the project "Installation of the Wireless Broadband between Tagaytay to Tanay Radio Link"</li> <li>▪ Provided technical assistance in the proposed conduct of feasibility studies under grant agreement between PAGASA-USTDA for the proposed upgrading of the PAGASA Met-Hydro Telecommunications System</li> <li>▪ Provided assistance in the proposed implementation of KOICA 2 Project in connection with the Metro Manila Flood Monitoring Project proposal</li> <li>▪ Provided technical assistance in the installation of AWS at 15 PAGASA Stations &amp; local sirens in connection with the implementation of the TECO 2 Project</li> <li>▪ Conducted training on networking and internet maintenance to PAGASA personnel</li> <li>▪ Conducted repair/maintenance of telecommunication facilities, basic electronic office equipment &amp; telephony at various PAGASA offices</li> <li>▪ Provided assistance and technical support for the maintenance of PAGASA Local Area Network including antenna installation, computer workstations &amp; peripheral devices to various PAGASA offices</li> </ul> <p>Involvement of the ETSD in the completion of various Infrastructure Projects:</p> <ul style="list-style-type: none"> <li>▪ Rehabilitation of Planetarium building - Science Garden</li> <li>▪ Repair/replacement of ceiling board at 4th floor PAGASA main building - Science Garden</li> <li>▪ Construction of Trellis of PAGASA main building - Science Garden</li> <li>▪ Repair of ECES storage building - Science Garden</li> <li>▪ Repair of perimeter fence, concreting of path walk, repair of CR, septic suction at Central Synoptic/Agromet Station - Science Garden</li> <li>▪ Improvement of Motor pool working area and carpentry office bldg. - Science Garden</li> <li>▪ Installation of road lamp lighting - WFFC compound</li> <li>▪ Repair of WFFC comfort rooms &amp; instrument unit - WFFC compound</li> <li>▪ Repair and repainting/re-tiling of NDRB building - WFFC compound</li> <li>▪ Rehabilitation of station buildings and facilities at Daet, Zamboanga, Calayan, Cuyo and Baguio</li> </ul>

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<p>4. Magna Carta for S &amp; T Personnel</p> <p><b>II. SUPPORT TO OPERATIONS</b></p> <p>a. Climate Data Management, Agrometeorological and Weather Modification Research and Development</p> <p>1. Operation and Maintenance of Meteorological Data Banks, including the Provision of Processed Climatological Information</p>	<p>This refers to RA 8439, an act of providing a MAGNA CARTA (MC) for scientists, engineers, researchers and other S&amp;T personnel in government.</p> <p><b><i>Climatological/Agroclimatic Data/ Information Prepared, Issued and Disseminated:</i></b></p> <ul style="list-style-type: none"> <li>• 200 Weather certifications</li> <li>• 12 Monthly Agroclimatic Impact Assessment for Philippine Agriculture</li> <li>• Customized weather information and other publications <i>(as need arises)</i></li> <li>• 12 Weather Update/Climate Outlook/Advisories</li> </ul> <p><b><i>Farm Weather Forecasting and Advisory Services Provided:</i></b></p> <ul style="list-style-type: none"> <li>• 365 Daily Farm Weather Forecasts and Advisories (FWFA)</li> <li>• Tropical Cyclone Warnings and Advisories (TCWA) for Agriculture issued <i>(whenever TC threatens PAR)</i></li> <li>• 36 Ten-day Weather Agro-climatic Review and Outlook for Agriculture</li> </ul>	<ul style="list-style-type: none"> <li>▪ Construction of new station building and perimeter fence at Sorsogon</li> <li>▪ Repair/rehabilitation of Agno River Flood Forecasting and Warning Center</li> <li>▪ Repair/rehabilitation of perimeter fence at Ambulong PAGASA station</li> <li>▪ Repair/repainting of National Solar Radiation Center</li> </ul> <p>Development of the Agency's Human Resources</p> <p>189 weather certifications issued <i>(Income Generated P169,980.00)</i></p> <p>12 publications and 288 copies disseminated <i>(A copy is also posted in the internet.)</i></p> <p>346 sets of publications sold <i>(Income Generated P599,355.00)</i></p> <p>5 El Niño/4 La Niña Advisories, and 1 Weather Update/Climate Outlook issued and 543 copies disseminated</p> <p>365 issued and 15,030 copies disseminated <i>(All issuances were posted in the internet.)</i></p> <p>41 TCWA issued to 520 recipients</p> <p>36 issued and 216 copies disseminated <i>(emailed to clients upon request)</i></p>

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	<ul style="list-style-type: none"> <li>• 36 Ten-day Regional Agri-weather Forecasts and Advisories</li> </ul> <p><b>Consultancy Services Extended:</b></p> <ul style="list-style-type: none"> <li>• interviews granted to tri-media (<i>as requested</i>)</li> </ul> <ul style="list-style-type: none"> <li>• Lectures/workshops attended/conducted (<i>as need arises</i>)</li> <li>• 2 Climate forum</li> <li>• Researchers of climate information (<i>as need arises</i>)</li> <li>• court hearing attended (<i>as requested</i>)</li> </ul> <p><b>Special Observations Gathered and Collected:</b></p> <ul style="list-style-type: none"> <li>• 1,072 Ozone observations</li> <li>• 12 Monthly precipitation samples collected and sent for analysis at the Bureau of Soils Laboratory</li> <li>• 13,064 pages of Meteorological/Climatological/Agromet data collected</li> <li>• 827,592 records of Meteorological/Climatological/ Agromet entered, checked and edited</li> <li>• 22,320 records of Solar radiation data extracted</li> </ul> <p><b>Special Observation Stations Operated and Maintained:</b></p> <ul style="list-style-type: none"> <li>• 1 Ozone monitoring station</li> <li>• 1 BAPMON station</li> <li>• 10 Visual Storm stations</li> </ul>	<p>36 issued and 1,080 copies disseminated <i>Agri- weather updates aired live daily (except Sun.) at DZRM radio (posted also in the internet)</i></p> <p>33 interviews (<i>DZRD, UNTV, Ch. 11, Filipino Star, Knowledge Channel, Radio Veritas, UH Ch. 7, NBN 4, "So to Speak" CLTV 3, RPN 9, Ch. 4, TV 5 and Press Conferences</i>).</p> <p>127 lectures attended/conducted to 5,893 participants</p> <p>7 climate forum conducted with 504 participants</p> <p>948 researchers/visitors</p> <p>2 court hearing attended at Makati RTC</p> <p>971 Ozone observations conducted and 33 calibrations made (No observation during cloudy skies)</p> <p>12 samples collected</p> <p>12,834 pages of observation data collected</p> <p>851,297 records entered, checked and edited</p> <p>21,092 records extracted</p> <p>1 Ozone station</p> <p>1 BAPMON station</p> <p>10 VSS</p>

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b. Training Activities in Atmospheric Geophysical and Allied Sciences	<p><b><u>11 In-house Technical Training Courses conducted to 220 participants:</u></b></p> <p>Conduct of Adhoc trainings</p> <p><b><u>Supported Scholars:</u></b></p> <ul style="list-style-type: none"> <li>• 4 Doctoral Degree</li> <li>▪ DOST-HRDP Scholars</li> <li>• DOST-SEI</li> </ul>	<p><b><u>10 In-house Technical Training Courses conducted to 259 participants:</u></b></p> <ul style="list-style-type: none"> <li>▪ Training Seminar on Radar and Satellite Data Interpretation, 09-22 March (36 participants)</li> <li>▪ Series of Seminar on Enhancing PAGASA's Impact and Risk Assessment Capability for Severe Wind Associated with Tropical Cyclones, 02-10 March (30 participants)</li> <li>▪ Training Seminar on STRIDE, 28-29 April (46 participants)</li> <li>▪ Training Seminar on Internet and Network Maintenance, 05-12 May (18 participants)</li> <li>▪ Training on WEB Content Management using JOOMLA, 25-28 May (11 participants)</li> <li>▪ Basic Training on Linux, 07-11 June (25 participants)</li> <li>▪ Training on Cubic Conformal Atmospheric Model (CCAM), 28 June - 02 July (24 participants)</li> <li>▪ Refresher Course on Meteorological Observations, Practices and Procedures for Field Station Personnel – Southern Luzon, 30 September – 02 October (21 participants)</li> <li>▪ Refresher Course on Meteorological Observations, Practices and Procedures for Field Station Personnel Visayas Region, 04-06 November (25 participants)</li> <li>▪ Refresher Course on Meteorological Observations, Practices and Procedures for Field Station Personnel (NCR-PRSD Region), 30 November – 02 December (23 participants)</li> </ul> <p><b><u>14 Scholars Assisted:</u></b></p> <p><b>2 Ph.D. in Meteorology, UP Diliman</b></p> <ul style="list-style-type: none"> <li>• <b>2 Completed</b> - E.O. Cayan and L.U. Dalida, Jr.</li> </ul> <p><b>1 Ph.D. in Statistics, UP Diliman</b></p> <ul style="list-style-type: none"> <li>• <b>1 On-going</b> - S.J. David (Thesis writing)</li> </ul> <p><b>5 MPM scholars, Ateneo de Manila University – Ateneo School of Government</b></p> <ul style="list-style-type: none"> <li>▪ <b>Completed</b> – R.M. Aguilar; F.G. Clemente; V.A. Chin; J.A. Masallo; N.G. Ramos</li> </ul> <p><b>5 M.S. in Atmospheric Science (Ateneo de Manila University)</b></p> <ul style="list-style-type: none"> <li>▪ <b>Completed</b> – A.T. Castillo; N.C. Niavares; S.N. Pajarilla; S.S. Schneider; M.Q. Villafuerte II</li> </ul> <p><b>1 Diploma in Atmospheric Science (ADMU)</b></p> <ul style="list-style-type: none"> <li>▪ <b>Completed</b> – A.J.S. Alcaraz</li> </ul>

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<p>c. Provision of Support Services</p> <p>1. Conduct of and Participation in Scientific &amp; Technical Conferences &amp; Meetings Including Membership in International &amp; National Scientific Organizations</p>	<ul style="list-style-type: none"> <li>• 11 Masteral Degree</li>   <li>• Seminars/Trainings attended: <ul style="list-style-type: none"> <li>- 8 local seminars/trainings with 25 participants</li> <li>- 24 foreign seminars/trainings with 24 participants</li> </ul> </li>   <li>• 1,000 library users assisted</li>   <p>Conduct of and participation in scientific meetings/activities and linkages to acquire new techniques for improving and upgrading agency services as well as membership in the WMO &amp; affiliations in the ASEAN-COST, ASGMG, UNEP, UNDP, FAO, UNESCO, ICAO, ESCAP and IUGG</p> </ul>	<p><b>10 M.Sc. in Meteorology, UP Diliman</b></p> <ul style="list-style-type: none"> <li>• <b>6 On-going</b> - J.C. Jesusa (Thesis writing); A.G. Aurelio; B.S. de Leon; NV.B. Peñaranda; R.L. Vergara and J.Q. Basconillo</li> <li>• <b>2 Completed</b> - J. Phuntshok (Bhutan); Thet Htar Su Hlaing (Myanmar)</li> <li>• <b>2 New</b> - Zin Mie Mie Sein (Myanmar); Kendara Durage Sujeewa</li> </ul> <p><b>1 M.Sc. in Agricultural Meteorology, UPLB</b></p> <ul style="list-style-type: none"> <li>• <b>1 New</b> - B. Lucillo</li> </ul> <p>59 local seminars/trainings attended with 499 participants 64 foreign fellowships acquired with 110 local participants</p> <p>1,742 library users assisted</p> <p><i>Scientific and technical meetings/conferences represented and participated in to enhance linkages, promote cooperation and collaboration with other UN agencies and WMO member countries:</i></p> <ul style="list-style-type: none"> <li>▪ American Meteorological Society (AMS) 90th Annual Meeting, 17-21 January, Atlanta, Georgia, USA</li> <li>▪ 42<sup>nd</sup> Session of the Typhoon Committee, 24-26 January, Singapore</li> <li>▪ Meetings and Workshops of United Nations International Strategy for Disaster Reduction: Strengthening Meteorological and Hydrological Services in Southeast Asia, 09-12 March, Hanoi, Vietnam</li> <li>▪ 4<sup>th</sup> GEOSS Asia Pacific Symposium and 6<sup>th</sup> Meeting of the GEOSS Asian Winter Interactive International Coordination Group, 10-13 March, Bali, Indonesia</li> <li>▪ Typhoon MORAKOT International Conference, 23-29 March, Taiwan</li> <li>▪ APEC Forum Round Table: Asia Regionalism Responding to Climate Change and Natural Disaster, 05-06 May, Singapore</li> <li>▪ 32<sup>nd</sup> Meeting of the ASEAN Sub-Committee on Meteorology, 10-12 May, Da Nang, Vietnam</li> <li>▪ Regional Integrated Multi-Hazard Early Warning Systems (RIMES) Master Plan and Development Programme Implementation Meeting, 16-18 May, Korea</li> <li>▪ United Nations Climate Change Talks, 06-12 June, Bonn, Germany</li> </ul>



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<p>2. Implementation of Philippine-PAGASA Participation in Regional Scientific Experiments/Studies and Other Inter-Agency Projects</p>	<p>Participation and provision of necessary expertise in regional scientific experiments &amp; studies such as in Global Climate Change Programme, Joint Ocean Cruises (WOCE), Typhoon Committee (TC), Southeast Asean Center for Atmospheric and Marine Prediction (SEACAMP), International Geosphere and Biosphere Program (IGBP), South China Sea Monsoon Experiment (SCSMEX), Global Climate Observing System (GCOS), Intergovernmental Oceanic Committee (IOC), Wind Energy Development Project and other inter-agency activities</p>	<ul style="list-style-type: none"> <li>▪ APEC Climate Symposium at APCC 2010, 20-24 June, Busan, Korea</li> <li>▪ Tender Opening Ceremony on the Project for the Improvement of the Meteorological Radar System, 22-28 June, Tokyo, Japan</li> <li>▪ World Meteorological Organization Technical Conference on Meteorological and Environmental Instruments and Methods Observation (TECO-2010), 30 August- 01 September, Finland</li> <li>▪ 7<sup>th</sup> Meeting of the GEOSS Asian Water Cycle Initiative (AWCI) International Coordination Group, 05-06 October, Japan</li> <li>▪ 32<sup>nd</sup> Session of the IPPC, 11-14 October, Korea</li> <li>▪ United Nations Climate Change Conference, 29 November-01 December, Mexico</li> <li>▪ International Policy-oriented Discussion on Gov't's Flood Risk Management Approaches, 30 November- 01 December, USA</li>   <li>▪ Training Course on Climate Change, Energy and the Environment, 18-29 January, Singapore</li> <li>▪ JICA Grant Aid Project entitled "Improvement of Flood Forecasting and Warning System in the Pampanga and Agno River Basins, 07-12 February, Tokyo, Japan</li> <li>▪ UN Office for Outer Space UN-SPIDER Regional Support Office, 09-12 February, Vienna, Austria</li> <li>▪ 5<sup>th</sup> Sentinel Asia System Operation Training, 22-26 February, Colombo, Sri Lanka</li> <li>▪ Open Lectures on frontiers of Space Sciences at the Graduate University of Advance Studies, Japan Aerospace Exploration Agency, Asian Winter School 2009, 08-10 March, Japan</li> <li>▪ International Workshop Towards the Successful Implementation of the WMO Information System in Asia, 09-11 March, Tokyo, Japan</li> <li>▪ 4<sup>th</sup> GEOSS Asia Pacific Symposium Towards A Global Earth Observation System, 10-12 March, Bali, Indonesia</li> <li>▪ Disaster Prevention and Disaster Management Facilities in Hyogo Prefecture, 17-18 March, Hyogo, Japan</li> <li>▪ 4<sup>th</sup> Weather Research and Forecasting Model Workshop and Tutorial, April 05-10, Seoul, Korea</li> <li>▪ Capacity Building of PAGASA Project Team on Extreme Wind Risk Assessment, 26 April – 07 May, Canberra Australia</li> <li>▪ Regional Working Group and Stakeholder Consultation Meeting on the Regional Cooperative Mechanism on Drought Disaster Monitoring Level and Early Warning, 28-30 April, Kumming, China</li> <li>▪ Redhat Linux Clustering and Storage Management Training, 17-21 May, Singapore</li> <li>▪ Factory Training of Marine Buoy, 28 June – 02 July, Jolimont, Australia</li> </ul>

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<p>3. Participation in the Inter-Agency Natural Disaster Prevention and Preparedness Activities</p>	<p>Participation in inter-agency projects concerned with the planning and implementation of the national program for disaster preparedness and prevention as well as in the conduct of post-disaster surveys</p>	<ul style="list-style-type: none"> <li>▪ International Workshop on Addressing the Livelihood Crisis of Farmers: Weather and Climate Services, 12-14 July, Brazil</li> <li>▪ Strengthening Climate Resilience (SCR) Regional Consultation Workshop for South East Asia, 22-23 July, Thailand</li> <li>▪ Regional Weather Prediction and Data Assimilation Training Workshop, 19-30 July, Germany</li> <li>▪ Training on Analysis of Communication, Ocean and Meteorological Satellite (COMS) data, 26 August- 18 September, Korea</li> <li>▪ Factory Level Training and Factory Acceptance Test in relation to the Aviation Weather, 15-20 August</li> <li>▪ Factory Level Training and Factory Acceptance Test in relation to the Aviation Weather Observation System and Wind Profiler, 13-17 September</li> <li>▪ Training Workshop on Application on Growth Simulation Model with Satellite Remote Sensing and Geographic Information System Techniques for Agricultural Crop Yield Monitoring and Estimating, 20-24 September</li> <li>▪ Training Workshop on Mesoscale Numerical Weather Prediction- Phase 1, 27 September- 08 October</li> <li>▪ Training Course on European Center for Medium-Range Weather Forecast Product (ECMWF), 11-15 October, England</li> <li>▪ Counterpart Training Course on Hydrology/Equipment and Maintenance related to Flood Forecasting and Warning System, 17-30 October, Japan</li> <li>▪ Asia Pacific Economic Cooperation (APEC) Workshop on Hazard Mapping Risk Vulnerability Assessment 19-21 October, Taiwan</li> <li>▪ Training Workshop on Meteorological Early Warning System for Prevention and Mitigation of Agricultural Disasters 15-19 November, Thailand</li> <li>▪ Typhoon Committee Roving Seminar- 2010, 30-November- 03 December, Thailand</li> <li>▪ Workshop on Space Application to Reduce- Water Related Disaster Risk in Asia, 07-09 December</li> <li>▪ Regional Experience Sharing Workshop on Early Warning System, 20-21 December, Thailand</li> </ul> <ul style="list-style-type: none"> <li>▪ Role of PAGASA in Disaster Management, GSIS Insurance Company</li> <li>▪ IDER Disaster Management Experts Mission</li> <li>▪ Hydromet Hazards (Philhealth, Provincial and Municipal Disaster Coordinating Councils , POEA, OCD, NEDA, BF Metals, House of Representatives</li> </ul>

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<p>d. Installation, Repair and Maintenance of Telemetry Multiplex System for Flood Forecasting and Warning Covering Pampanga, Agno, Bicol and Cagayan (PABC) River Basins</p>	<ul style="list-style-type: none"> <li>• 15,300 station-days of PABC real-time (telemetered) rainfall and water level data acquired at Weather and Flood Forecasting Center (WFFC) and 15,100 station-days at River Centers acquired in real-time (hourly/3 hourly) for hydrologic (flood) forecasting.</li> <li>• 16 regular preventive and 16 emergency corrective maintenance of PABC basins telemetry systems</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentation of the Storm Surge Hazard Map of Antique in the Peer Review, PHIVOLCS</li> <li>▪ ADPC/Red Cross/PAGASA Workshop on Forecast Applications</li> <li>▪ Humanitarian Emergency Response Disaster Preparedness Training for AusAid Project</li> <li>▪ Community Based Disaster Risk Reduction and Management of Pasig Officials</li> <li>▪ Training of Trainers in Disaster Management Course, PNRC</li> <li>▪ Basic Disaster Management Seminar for Employees of Inter-Country Adoption Board</li> <li>▪ Disaster Response Operation Seminar Workshop, Northern Luzon Command, Clark Airbase</li> <li>▪ Disaster Risk Management, International Association of Registered Financial Consultants</li> <li>▪ First Meeting of the Task Force IRR on the Disaster Reduction Management, NDCC</li> <li>▪ 3-day Training of trainers on Disaster Management for Local Government Officials</li> <li>▪ Earthquake and Wind Vulnerability Workshop</li> <li>▪ Training on Irrigation Water Management and Modernization: Coping with Climate Variability in coordination with the National Irrigation Administration (NIA) AND World Bank (WB)</li> <li>▪ Department of Environment and Natural Resources (DENR) and the Partnership in Environmental Management for the Sea of East Asia (PEMSEA) (“ Planning Workshop for the Implementation of the Sustainable Development Strategy for the Seas of East Asia</li> <li>▪ National Disaster Risk Reduction and Management Council (NDRRMC) Project Planning Meeting cum Workshop “Collective Strengthening for Community Awareness to Natural Disaster (CSCAND) Group and Other</li> <li>▪ Empowering Partners and Practitioners in Managing Flood Early Warning Systems (FEWS)</li> </ul> <p>8,290 station-days at River Centers (<i>excluding Agno River Basin due to rehabilitation</i>)  2,243 station-days at Center Office (<i>excluding Agno River Basin due to rehabilitation</i>)</p> <p>Conducted 11 regular check-ups and corrective maintenance of 4 gauging and 1 repeater stations and 16 emergency repairs of PABC systems</p>

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<p><b>III. OPERATIONS</b></p> <p>a. Weather and Flood Forecasting and Geophysical and Astronomical Services</p> <p>1. Typhoon Warning and Weather Services, Including the Operation of Meteorological Communication and Regional Forecast Centers and the Provision of Numerical Weather Prediction Techniques and Analysis</p>	<p><b>Number of Weather Forecasts/Warnings and other Information Packages Prepared and Issued:</b></p> <ul style="list-style-type: none"> <li>▪ 730 Public Weather forecasts</li> <li>▪ 730 Shipping forecasts</li> <li>▪ Tropical Cyclone: <ul style="list-style-type: none"> <li>- 10 Advisories/Recommendations</li> <li>- 193 Bulletins (<i>as need arises</i>)</li> <li>- 225 international warnings</li> </ul> </li> <li>▪ 34,675 Aviation weather forecasts &amp; flight enroute documentations</li> <li>▪ 365 Special weather forecasts for selected Asian cities/ Philippine cities/municipalities (<i>as need arises</i>)</li> <li>▪ Special forecasts for selected provinces (Mt. Pinatubo lahar-affected areas, Mt. Mayon and other selected areas)</li> <li>▪ Gale warnings/weather advisories for extreme weather system (<i>as need arises</i>)</li> <li>• 240,000 clients received forecasts thru telephone/facsimile/autofax/ e-mail/voice server</li> <li>• 18,313 weather maps plotted and analyzed</li> <li>• 1,460 Incorporation of MSL pressure, wind charts, satellite picture in public and shipping weather forecasts</li> <li>• 9,270 Public &amp; shipping weather forecasts/charts/satellite images incorporated in PAGASA Website</li> </ul>	<p>730 Public weather forecasts</p> <p>730 Shipping forecasts</p> <p>11 entered the PAR (TS AGATON – March 24-27; TY BASYANG July 11-14; TS CALOY July 18-19; TS DOMENG August 3-5; TS ESTER August 3-5; TS FLORITA August 27-28; TY GLENDA August 29-31; TS HENRY Sept. 2-4; TY INDAY Sept. 15-19; TY JUAN Oct. 15-20; TY KATRING Oct. 23-28)</p> <p>Advisories: 21 Severe Weather Bulletins: 101 134</p> <p>36,241 Aviation weather forecasts &amp; flight enroute documentations</p> <p>365 weather forecasts issued</p> <p>365 forecasts</p> <p>165 warnings</p> <p>240,246 clients</p> <p>18,313 maps plotted and analyzed</p> <p>1,460 forecasts/charts/satellite images incorporated in PAGASA Website</p> <p>9,270 forecasts/charts/satellite images incorporated in PAGASA Website</p>

PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
<p>2. Flood Forecasting and Hydrometeorological Services</p>	<ul style="list-style-type: none"> <li>• Advisory/warning/bulletin incorporated in PAGASA Web page <i>(as need arises)</i></li> <li>• 100 Pampanga, Agno, Bicol and Cagayan (PABC) river basins flood bulletin prepared/ issued</li> <li>• 140 General flood advisories for some non-telemetered river basins</li> <li>• 1,408 Daily hydrological forecasts for PABC river basins</li> </ul> <p><b>Hydromet/hydrologic predictions and other information provided:</b></p> <ul style="list-style-type: none"> <li>▪ 100 Rainfall Intensity Duration Frequency (RIDF)</li> </ul> <p><b>Hazard Mapping:</b></p> <ul style="list-style-type: none"> <li>▪ Antique</li> <li>▪ Bohol</li> <li>▪ Samar</li> </ul> <p><b>Community-Based Early Warning System (CBEWS) – READY Project:</b></p> <ul style="list-style-type: none"> <li>▪ Metro Manila and Rizal Provinces</li> <li>▪ Leyte and Southern Leyte</li> </ul>	<p>265 advisories/warnings/bulletins incorporated in PAGASA Web page</p> <p>38 flood bulletins issued (due to occurrence of El Niño)</p> <p>99 general flood advisories <i>(CAR - 42; Reg. 1- 33; Reg. 2 - 3; Reg. 3 - 72; Reg. 4A - 36; Reg. 4B - 57; Reg. 5 - 27; Reg. 6 - 33; CAR - 7; Reg. 7 - 12; Reg. 8 - 25; Reg. 9 - 1; Reg. 10 - 5; Reg.11 - 10; Reg. 12 - 4; Reg. 13 - 16; Guagua River Basin - 6)</i></p> <p>1,420 hydro forecasts</p> <p>157 stations/sheets to 84 clients <i>(Income Generated P63,000.00)</i></p> <ul style="list-style-type: none"> <li>▪ 16 map sheets <i>(One preliminary table top analysis )</i></li> <li>▪ Preliminary processed (data gathered)</li> <li>▪ Final hazard map will be available at NAMRIA</li> <li>▪ Conducted ocular survey of SMART facilities within the Pasig-Marikina River Basin as possible choice for collocation of PAGASA raingauges for early warning on flood</li> <li>▪ Installation of pilot rain gauge station for Metro Manila early warning project</li> <li>▪ Relaunching of the KOICA Project for Metro Manila and Rizal province LGUs</li> <li>▪ Completed the installation of MRG and conducted training on observation, recording &amp; analysis</li> <li>▪ Revisited the Leyte and Southern Leyte READY project to evaluate its establishment after 2 years</li> </ul>

PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
<p>3. Operation and Maintenance of Flood Forecasting and Warning System for Dam Operation Project I Covering Pantabangan and Angat Dam</p> <p>4. Operation and Maintenance of Flood Forecasting and Warning System for Dam Operation Project II Covering Binga, Ambuklao and Magat Dams</p> <p>5. Operation and Maintenance of Astronomical Observatories/ Planetarium including the Provision of Standard Time Services</p>	<ul style="list-style-type: none"> <li>▪ Antipolo City</li> <li>▪ Bohol</li> <li>▪ Davao City</li> <li>• 600 Station-months of PABC &amp; Metro Manila real-time (telemetered) hydro data primary processed</li> <li>• 1,500 station-months of synoptic, hydromet and PABC short-duration hydro data primary processed</li> <li>• Students/visitors on public information/education drive on flood disaster and other related topics</li> <li>• 4 Flood bulletins/warning information for Angat and Pantabangan Dam Operation</li> <li>• 1,800 Station-days of hourly hydro raw data of Angat and Pantabangan dams acquired in real-time</li> <li>• 60 Station-months of Angat/ Pantabangan dam operations real-time (telemetered) hydro data primary processed</li> <li>6 Flood bulletins/warning information for Binga/ Ambuklao/San Roque and Magat Dam Operation</li> <li>• 800 station-days hourly hydro raw data of Binga/Ambuklao and Magat dams acquired in real-time</li> <li>• 30 station-months of Binga/Ambuklao &amp; Magat dam operations real-time (telemetered) hydro data primary processed</li> <li>• Dissemination of 9,012 time of 24-hour telephone time checks to the general public</li> <li>• Synchronized time in all TV stations in Metro Manila with the observatory clock using the telephone/internet</li> </ul>	<ul style="list-style-type: none"> <li>▪ Conducted lectures on the utilization of rain gauges</li> <li>▪ Revisited Bohol CBFWEWS for tsunami with OCD, PHIVOLCS &amp; NAMRIA</li> <li>▪ Coordinated meeting for On-the-job Training/Immersion for Ateneo de Davao staff</li> </ul> <p>674 station-months of digitized rainfall charts</p> <p>1,005 (<i>Defective equipment during the 1<sup>st</sup> quarter</i>)</p> <p>In-house – 1,403 students/visitors On-site – 16,722 students/visitors</p> <p>1 flood bulletins/warning information</p> <p>1,013 station-days (except Agno due to rehabilitation)</p> <p>83 station-months</p> <p>4 flood bulletins/warning information</p> <p>No data due to the rehabilitation of communication link.</p> <p>No data due to the rehabilitation of communication link.</p> <p>8,688 time check requests disseminated thru telephone to Metro Manila</p> <p>Time monitoring on a weekly basis undertaken</p>

PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
	<ul style="list-style-type: none"> <li>• Dissemination of 200 time signals to PAGASA Synoptic Stations</li> </ul> <p><b>Promotion of Astronomy:</b></p> <ul style="list-style-type: none"> <li>• Celebration of National Astronomy Week (3<sup>rd</sup> week of Feb.) <ul style="list-style-type: none"> <li>- Accommodation of students on stargazing &amp; telescoping sessions at the PAGASA Observatory</li> <li>- Conduct of free planetarium lectures and shows to 1,200 students and visitors</li> </ul> </li> <li>▪ Mobile Planetarium lectures/stargazing/telescoping on Tour to 24 schools in Luzon (<i>as per request</i>)</li> <li>• Accommodation of visitors to planetarium lectures &amp; shows at Central Office</li> <li>• 1,300 Viewers to stargazing &amp; telescoping sessions at U.P. Astronomical Observatory using the 45-cm telescope</li> <li>• Astronomical publications information <ul style="list-style-type: none"> <li>- sold</li> <li>- disseminated as complimentary copies</li> </ul> </li> <li>• Lunar and Solar Certifications</li> <li>• 12 Press Releases on different astronomical events disseminated</li> <li>• Attendance to court hearings, as friends of the court (<i>upon receipt of sub-phoena</i>)</li> <li>• 261 Astronomical observations: <ul style="list-style-type: none"> <li>- 230 sunspots</li> <li>- 25 lunar occultations</li> <li>- 4 meteor showers</li> <li>- 2 eclipse</li> </ul> </li> </ul>	<p>193 time signals transmitted to stations</p> <p>157 students accommodated (<i>free of charge</i>)</p> <p>Not conducted due to rehabilitation of the Planetarium</p> <p>Accommodated 21 schools with 16,990 students/science teachers as participants in portable planetarium lecture and shows and stargazing (<u><i>Income Generated P54,000.00 – as rental fee for the equipment.</i></u>)</p> <p>5,296 students and science teachers in 23 schools accommodated for planetarium lectures/shows on Astronomy (<u><i>Income Generated P106,450.00</i></u>)</p> <p>1,037 visitors in 15 schools accommodated on stargazing/telescoping sessions (<i>including non-payee</i>) (<u><i>Income Generated P17,350.00</i></u>)</p> <p>258 publications sold (<u><i>Income Generated P19,840.00</i></u>) 820 complimentary copies disseminated</p> <p>1 lunar certification issued</p> <p>12 Press releases issued on astronomical events</p> <p>No court hearing attended</p> <p><i>Astronomical observations conducted:</i></p> <ul style="list-style-type: none"> <li>- 208 sunspots</li> <li>- 30 lunar occultation</li> <li>- 8 meteor showers</li> <li>- 1 eclipse</li> </ul>

PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
<p>b. Observation and Acquisition of Data for Atmospheric-Geophysical and Allied Sciences</p> <p>1. Observation, Measurement, Recording and Reporting of Atmospheric, Geophysical &amp; Astronomical Data including the Operation &amp; Maintenance of Surface &amp; Upper Air Observation Network</p>	<ul style="list-style-type: none"> <li>• Sunshine duration &amp; global radiation data</li> <li>• Provision of 365 solar radiation data to 10 researchers</li> </ul> <p><b>Weather Observations Conducted and Reported in Real-Time:</b></p> <ul style="list-style-type: none"> <li>• 149,760 Surface/synoptic observations</li> <li>• 720 Upper-Air observations</li> <li>• 9,428 Agromet observations</li> <li>• 83,160 Aeronautical observations</li> </ul> <p><b>Operated and Maintained Network of Observing Stations:</b></p> <ul style="list-style-type: none"> <li>• 58 Surface synoptic stations</li> <li>• 6 Upper-Air stations</li> <li>• 23 Agromet stations</li> <li>• 16 Aeronautical stations</li> <li>• 12 AWS</li> <li>• 2 MTSDP Relay stations</li> </ul> <p><b>Extension Services:</b></p> <ul style="list-style-type: none"> <li>• Participants to lectures in DPP-IEC related trainings, seminars and workshops (<i>as need arises</i>)</li> <li>• Students/visitors at field stations lectured/ briefed on weather/natural disaster prevention/agency services (<i>as need arises</i>)</li> </ul>	<p>Observed global radiation data (365 days) and sunshine duration data (365 days)</p> <p>Data provided to 47 researchers <i>(Income Generated – P10,000.00)</i></p> <p>110,382 observations</p> <p>1,484 observations</p> <p>11,261 agromet observations</p> <p>73,492 observations</p> <p>58 Surface synoptic stations</p> <p>6 Upper-Air stations</p> <p>23 Agromet stations</p> <p>16 Aeronautical stations</p> <p>12 AWS</p> <p>2 MTSDP Relay stations</p> <p>32,210</p> <p>38,538</p>



PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
<p>2. Operations of Upgraded Geostationary Meteorological Satellite Receiving System Acquired Under the 1988 Grant-in-Aid Program of Japan</p> <p>3. Operation and Maintenance of Weather Surveillance Radar Network</p>	<ul style="list-style-type: none"> <li>• Local/public weather forecasts &amp; warnings disseminated <i>(as need arises)</i></li> <li>• 600 Weather certifications <i>(as need arises)</i></li> <li>• 32,800 Satellite data acquired from MTSAT, NOAA/FY-ID, Feng Yun and MODIS</li> <li>• 3,200 Images processed, pre-process level 1b to HDF &amp; other products <i>(as need arises)</i></li> <li>▪ 34,000 Processed set data archived</li> <li>• 8,760 Processed hourly satellite data uploaded to PAGASA website and to Weather Information Network for Media presentation</li> <li>• Lectures conducted to students/visitors <i>(as need arises)</i></li> <li>• 15,200 Weather information (weather forecast, warnings &amp; bulletins) disseminated</li> <li>• Assists researchers in satellite data extraction and interpretation <i>(as need arises)</i></li> <li>• 1,463 Radar observations conducted</li> <li>• 10 Radar stations operated &amp; maintained</li> </ul>	<p>105,858 local/public weather forecasts &amp; warnings disseminated</p> <p>428 weather certifications issued <i>(Income Generated P446,749.00)</i></p> <p>32,800 satellite data images</p> <p>3,200 satellite data images</p> <p>34,000 set of data archived</p> <p>8,760 satellite data files</p> <p>10 lectures conducted to students/visitors</p> <p>15,200 weather information</p> <p>13 researchers assisted</p> <p>1,146 radar observations conducted</p> <p>Baler and Baguio Radar stations - operational Virac, Aparri and Guiuan Radars – for repair and upgrading</p>

PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
<p>c. Research on Atmospheric-Geophysical and Allied Sciences Research</p> <p>1. Atmospheric, Geophysical Astronomical and Space Sciences Research</p>	<ul style="list-style-type: none"> <li>• Doppler Radar Network Program implemented</li> </ul> <p>Basic and applied researches/studies conducted for applications and utilization in improving meteorological, hydrological &amp; space sciences activities</p> <ul style="list-style-type: none"> <li>• Calibration of 60 assorted meteorological instrument for various customers and 50 for PAGASA</li> </ul>	<p>Monitored the implementation of the Doppler Radar Projects :</p> <ul style="list-style-type: none"> <li>▪ SBMA radar building – 100% completed; Radar equipment – installation on-going; Conducted training of Weather Doppler Radar</li> <li>▪ Tagaytay Doppler Radar Bldg. - almost completed; Radar equipment - installation on-going</li> <li>▪ Mactan, Cebu Doppler radar building and tower – construction, almost completed</li> <li>▪ Hinatuan Radar building and tower -,100% completed; Radar equipment - installation on-going</li> <li>▪ Tampakan Radar building - almost completed; Radar equipment - installation on-going</li> </ul> <p><b>Researches/Studies/Projects Conducted:</b></p> <ol style="list-style-type: none"> <li>1. Empirical Evidence of Health Vulnerabilities in Marginalized Communities as Affected by Climate Change</li> <li>2. Studying the Impact of Climate Variability on Agricultural Pest</li> <li>3. Farmer’s Response to Farm Weather Forecast</li> <li>4. Updated Statistics of the WEMEX Area</li> <li>5. Enhancement of the Infrared Look-Up Table for Rainfall Estimation Using Clark and Tanay Stations</li> <li>6. Enhancing PAGASA’s Impact and Risk Assessment Capability for Severe Wind Association with Tropical Cyclone</li> <li>7. Establishment of A Disaster Management Training Center in Aurora</li> <li>8. Establishment of the Philippine Disaster Science Center</li> <li>9. Hydro-meteorological Hazard Assessment in Camarines Norte</li> <li>10. Rainfall Analysis of Selected Tropical Cyclones in the Philippines</li> <li>11. Further Development of Automatic Weather Station</li> </ol> <p>Repaired and calibrated 175 asstd. meteorological instruments for various clients and 81 for PAGASA <i>(Income Generated P110,935.00)</i></p>

PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
<p>2. Weather Modification Activities and NATURAL DISASTER REDUCTION Including the Payment of P25,000 for the Flying</p> <p>Pay of Personnel (on flying status) Undertaking Aerial Flights, Equivalent to 25% of the Base Pay; PROVIDED, that Flying Pay shall be Given to Personnel Who Have Logged More Than 10 Flying Hours A Month</p> <p>3. Conduct of NATURAL DISASTER Researches, Pursuant to Section 10 of PD 78</p> <p>4. Agro-Climatic Research and Farm Weather Services and Climate Variability and Climate Change Studies</p>	<ul style="list-style-type: none"> <li>• Information and Education Campaign (IEC) Program on Disaster Management/ Natural Hazards Trainings/ Workshops (as Resource Person)</li> <li>• Special Tropical Cyclone Reconnaissance Information and Damage Evaluation (STRIDE) <ul style="list-style-type: none"> <li>- Conducts ground truth verification and damage assessment during and after the passage of tropical cyclones and other meteorological hazards</li> <li>- Duty of STRIDE team members at the Forecasting Center, OCD, Camp Aguinaldo during inclement weather</li> </ul> </li> </ul> <p>Operational researches/studies on tropical cyclones and other natural disaster-causing phenomena and comprehensive hazard/ vulnerability and risk assessment conducted</p> <p>Climate change studies activities</p>	<ul style="list-style-type: none"> <li>▪ Conducted lectures to 40,465 students &amp; teachers at WFFC</li> <li>▪ Conducted lectures on natural hazards and weather outlook to 3,531 participants at different occasions and venue</li> <li>▪ Investigated the reported occurrence of tornado at Bustos, Bulacan on June 10, 2010</li> <li>▪ Conducted STRIDE training seminar on April 28-29, 2010;</li> <li>▪ Rendered services at OCD, Operation Center, Camp Aguinaldo, Q.C. during the occurrence of inclement weather.</li> </ul> <p><b>Researches/Studies/Projects conducted:</b></p> <ol style="list-style-type: none"> <li>1. Enhancement of the Broadcast Capability of PAGASA Through the Full Operation of the Weather &amp; Disaster Alert System in Visayas Region</li> <li>2. Development of Nowcasting System for Metro Manila</li> <li>3. Enabling Communities for the Adoption of Disaster Prevention &amp; Preparedness Measures for Areas Prone to Floods &amp; Rain-Induced Landslides</li> <li>4. Automation of PAGASA Forecasting and Warning Services</li> <li>5. Disaster Reduction Through Establishment of Back-up Communication &amp; Enhancement of Tropical Cyclone Impact Assessment</li> <li>6. Establishment of Weather Radar Network to Support Socio-Economic Development in Mindanao</li> <li>7. Enhancement of Weather and Climate Monitoring in Cebu and the Visayas Region</li> </ol> <p><b>Special Projects conducted:</b></p> <ol style="list-style-type: none"> <li>1. Climate-Based Information Support System for the Management of Angat-Umiray Reservoir (Special Project) - completed</li> <li>2. Strengthening the Philippines' Institutional Capacity to Adapt to Climate Change (MDG-F 1656) – Special</li> </ol>

PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
<p><b>B. PROJECTS</b></p> <p><b>I. Locally-Funded Projects</b></p> <p>a. Continuation of the Construction of PAGASA Central Office Building and Site/Land Development at Science Garden Complex</p> <p>b. Rehabilitation of Weather and Flood Forecasting Center (WFFC)</p> <p><b>II. Foreign-Assisted Projects</b></p> <p>a. Improvement of Flood Forecasting and Warning System in the Pampanga and Agno River Basins – JICA Grant, Phase I – Pampanga River Basin, Phase II – Agno River Basin Peso Counterpart – VAT Payments</p> <p>b. Strengthening of Flood Forecasting and Warning System for Dam Operation (FFWSDO) – JICA Grant TCP Peso Counterpart – VAT Payments</p>	<p>Implementation/monitoring of the finishing of the PAGASA main building</p> <p>Implementation/monitoring of the rehabilitation of WFFC building</p>	<ul style="list-style-type: none"> <li>▪ Administration building and construction of trellis – 100% completed</li> <li>▪ Repair and replacement of ceiling board (4th Floor Main Bldg.) – 100% completed</li> <li>▪ Rehabilitation of Planetarium Bldg. – 100% completed</li> <li>▪ Repair of ECES Storage Bldg., perimeter fence and concreting of path walk – 100% completed</li> <li>▪ Improvement of motorpool working area and carpentry office bldg. – 100% completed</li>   <li>▪ Repair/Rehabilitation of CR and Instrument Unit – 100% completed</li> <li>▪ Installation of Road Lamp Lighting – 100 % completed</li> <li>▪ Repair and Repainting and Repainting/Re-tiling of NDRB Bldg. – 100% completed</li>   <li>▪ First shipment which included rainfall and water level facilities were delivered to the Agno River Flood Forecasting and Warning Center (Carmen, Rosales, Pangasinan) on 15 July 2010.</li> <li>▪ Second shipment arrived in September 2010.</li> <li>▪ Construction of the Agno FFW Center Building is on-going</li> <li>▪ Phase 1 completed (structural)</li> <li>▪ Tentative schedule for inauguration on March 11, 2011</li>   <li>▪ Hydrographic survey in the downstream areas of Angat, Pantabangan, Magat and San Roque dams carried out by the Consultant during the 1st Qtr. of 2010</li> <li>▪ Preparation for the activity on flood drill and transfer of control from Binga to San Roque is on-going</li> </ul>

PROGRAMS/ACTIVITIES/PROJECTS	TARGETS (January to December 2010)	ACTUAL ACCOMPLISHMENTS (January to December 2010)
<p>c. Improvement of Flood Forecasting and Warning System for Magat Dam and Downstream Communities (FFWSDO) – NoRAD Grant Peso Counterpart – VAT Payments</p> <p>d. Improvement of the Meteorological Radar System – JICA Radar</p>		<ul style="list-style-type: none"> <li>▪ Signing of the Agreement between the Norwegian Water Resources and Energy Directorate (NVE) and PAGASA was officiated on 11 November 2010 at the Conference Room of the Office of the Secretary at the DOST grounds. The signing was done by Director Kjell Repp representing NVE, and Dr. Nathaniel T. Servando, the Officer-in-Charge of PAGASA. Witnesses to the signing are the Ambassador of Norway H.E. Knut Solem and DOST Secretary Mario G. Montejo.</li> <li>▪ A technical meeting was held at the Conference Room WFFC on 11 November 2010 with Mr. Kjell Repp of NVE. The technical group working on the Telecommunication, telemetry and ICT activities of the project presented their initial work. Mr. Kjell informed the group that a technical adviser will be dispatched early January to finalize the technical specifications of the equipment to be bid out.</li> <li>▪ The Technical group of the project is presently working on the initial bid document to be submitted to NVE for finalization.</li> <li>▪ Construction work for Virac, 14.03% completed</li> <li>▪ Equipment work (procurement and manufacturing) for Virac, 23.09% completed</li> <li>▪ Issued Certificates of Completion for the Consultant and the Contractor for ten (10) concrete piles of piling works for the Radar Tower Building in Virac</li> </ul>

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