WWW TECHNICAL REPORT ON DEVELOPMENT OF GLOBAL DATA PROCESSING SYSTEM FOR 2002
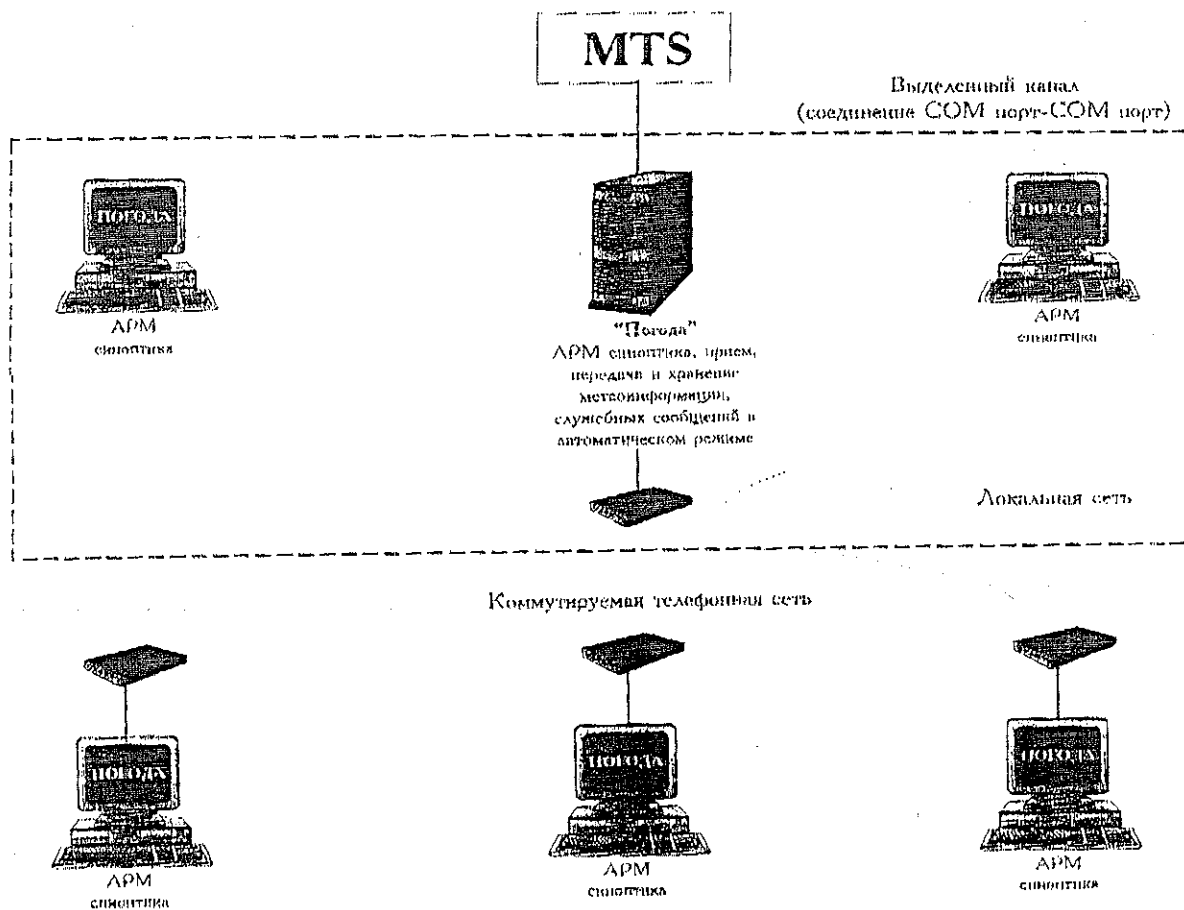
STATE: KAZAKHSTAN

Republican State-Owned Enterprise "Kazhydromet"

1. Summary of key factors

In 2002 in all regional Centers for hydrometeorology of Kazakhstan the software on automatic data processing and display was established, the system "Weather".

СИСТЕМА ПОГОДА

In the Center for Computer Technologies and Communication (CCTC) of Kazhydromet the soft hardware complex ScanX has been established, by means of which the reception and preprocessing of satellite data by HRPT format from artificial satellites (NOAA series) in the range 1.7 GHz was started.

In connection with difficulties of timely and qualitative transmission of data from observation points, data acquisition from observing network using radio stations has got further development. In 4 meteorological stations of Almaty oblast and in

Radio Communication Division of CCTC packet controllers have been established and digital data transmission was started.

For improvement of quality and reduction of time for information collection by e-mail, the postal server has been organized. In October the transfer accomplished from Dial-up system to work on the Internet system through the dedicated channel that increased considerably data receive-transmission rate.

The web site of the Kazhydromet has been developed and placed in the Internet http://www.meteo.kz

In 8 regional Centers for Hydrometeorology a complete version of the program system has been established for processing regime meteorological information – Persona MIS and Persona MIP.

The development of the "Automated workstation of meteorologist-observer" software package has been completed. This software package allows automatizing the process of making and sending massages with operational and regime meteorological data.

The programs have been developed of drawing and printing synoptic maps for creating archives in economic regime.

2. Equipment, used by Center.

The new equipment have been established:
Pentium III-1000MHz/128 Mb/20G – server, Pentium IV – 1700MHz/256Mb/40G – 2 pieces,
Pentium IV – 1700MHz/128Mb/40G – 4, receiving satellite terminal ScanX complete with Pentium III-1000 MHz/512Mb/60G, modems TAINET T-288C – 2.

Items 3-8 no changes.

9. Prospects.

Protection of Global Telecommunication System (GTS) by means of the router setting. Improvement of data reception-transmission over GTS, by organization automated stand-by connection through the Internet system. Implementation of the work on improvement of Kazhydromet web site.