API usage guidelines for MOD006

Following points need to be taken into account while implementing Web Service client for MOD006. These will help optimising system and network bandwidth usage.

1. Client should be **HTTP Compression** enabled

    HTTP Compression had been made mandatory for API's. Thus API's client should include "Accept-Encoding: zip" header as part of request and should be able to handle compressed data. Please note that system will send an error message if client are not http compression enabled saying client should be compression enabled.

2. Latest data get published every 12 minutes.

    There is no need of continues polling of the system since data gets updated only at 12 minutes interval. API's Client should make call every 12 minutes to get latest data.

3. Use **GetLastPublicationTime** API to avoid downloading duplicate.

    Please use following steps
    a. Always store Timestamp of last data downloaded. (Say **LDT**)
    b. Always use **GetLastPublicationTime** API get timestamp for latest available data (Say **LPT**).
    c. IF **LPT > LDT** proceed with download by calling **GetInstantaneousFlowData**.
    d. ELSE wait for the latest data to be available at GMRS.

4. Client should support HTTP 1.1.

    Since HTTP compression had been enforced some of HTTP 1.0 client might not be able to handle compressed data correctly. Thus to avoid any such problem it is recommended to use HTTP 1.1 protocol.