09 SEPTEMBER 2020

PRELIMINARY CULTURAL HERITAGE SATELLITE- DERIVED DANGER ASSESSMENT REPORT, REPUBLIC OF THE SUDAN

STATUS: NO FLOOD WATERS OBSERVED NEARBY THE ARCHEOLOGICAL SITES AS OF 09 SEPTEMBER 2020

FURTHER ACTION(S): CONTINUE MONITORING
OVERVIEW / BASED ON AOIs ASSESSED

Date of assessment validity: 09 September 2020

Impact and severity*:
- undetected
- limited impact potentially detected
- significant impact potentially detected

Potentially affected elements at risk (indicate all that are applicable):
- buildings - residential
- buildings - commercial/industry
- vulnerable structures (e.g. schools, hospitals, water, sanitation, power stations, etc.)
- internally displaced persons (IDP) camps
- transportation network
- agriculture
- other:

Data sources:

1. pre-event (reference) image:
   - Sentinel-2, 15 August 2020, 08:06:09 UTC, Contains modified Copernicus Sentinel data [2020], Source: ESA
   - Sentinel-2, 18 August 2020, 08:16:11 UTC, Contains modified Copernicus Sentinel data [2020], Source: ESA

2. post-event images:
   - Sentinel-2, 09 September 2020, 08:06:11 UTC, Contains modified Copernicus Sentinel data [2020], Source: ESA
   - Sentinel-2, 07 September 2020, 08:16:09 UTC, Contains modified Copernicus Sentinel data [2020], Source: ESA

3. baseline data
   - Administrative boundaries: OCHA
   - River: OpenStreetMap
   - Populated places: OpenStreetMap
   - Cultural Heritage Sites: UNESCO

* disclaimer (i.e. assessment has yet to be validated with field-based information)
AOI 1 ARCHEOLOGICAL SITES OF THE ISLAND OF MEROE, RIVER NILE STATE, SUDAN: NO FLOODS OBSERVED NEARBY ARCHEOLOGICAL SITES

BEFORE

AFTER

SENTINEL-2 / 15 AUGUST 2020

SENTINEL-2 / 09 SEPTEMBER 2020
AOI 1 ARCHEOLOGICAL SITES OF THE ISLAND OF MEREOE, RIVER NILE STATE, SUDAN: NO FLOODS OBSERVED
AOI 1 ARCHEOLOGICAL SITES OF THE ISLAND OF MEROE, RIVER NILE STATE, SUDAN: NO FLOODS OBSERVED
AOI 2 GEBEL BARKAL AND THE SITES OF THE NAPATAN REGION, NORTHERN STATE, SUDAN: NO FLOODS OBSERVED NEARBY ARCHEOLOGICAL SITES

BEFORE

AFTER

SENTINEL-2 / 18 AUGUST 2020

SENTINEL-2 / 07 SEPTEMBER 2020
AOI 2 GEBEL BARKAL AND THE SITES OF THE NAPATAN REGION, NORTHERN STATE, SUDAN: NO FLOODS OBSERVED
AOI 2 GEBEL BARKAL AND THE SITES OF THE NAPATAN REGION, NORTHERN STATE, SUDAN: NO FLOODS OBSERVED NEARBY ARCHEOLOGICAL SITES

BEFORE

AFTER

SENTINEL-2 / 18 AUGUST 2020

SENTINEL-2 / 07 SEPTEMBER 2020
SUMMARY OF PRELIMINARY OBSERVATIONS AND FURTHER ACTIONS

Date of assessment validity: 09 September 2020

Preliminary observations, impact and severity *:

AOI 1:
• No floods observed nearby Musawwarat es-Sufra and Naqa archeological sites as of 09 September 2020;
• Pyramids of Meroe are not affected by flood waters as of 09 September 2020.
• Water increase observed along the Nile river affecting agricultural lands as of 09 September 2020;

AOI 2:
• No flood waters observed nearby Gebel Barkal and the Sites of the Napatan Region as of 07 September 2020.
• Water increase observed along the Nile river affecting agricultural lands as of 07 September 2020;

Further/ anticipated actions from UNOSAT:

- no impact detected/discontinue monitoring over specific AOI
- potential impact detected
  - continue monitoring over specific AOIs 1 & 2
  - full assessment to be conducted
- more data and/or information needed to confirm impact severity

* disclaimer (i.e. assessment has yet to be validated with field-based information)