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European Geosciences Union General Assembly 2021, vEGU21, 19-30 April 2021 **Detecting Transient Creep Events on the Ismetpasa** Ð Segment of the North Anatolian Fault with **Continuous GNSS Time Series**

od GNSS Data
est Component
North Anatolian Fault
(IS20, IS21, IS04 and IS16) on horizontal component for 5 month data dataset to uncorrelated components. PCA first components(1st PC)
n (detrended, annual-semiannual signals and common mode errors
creep event. IS16 is located south of the NAF.
odel
0, Dur=15±0.1 Days, Tent 112
10
8
Disp
Gacer
4 ment
Creepmeter 22
Ismetpasa WN - 0
Ismetpasa WN Ismetpasa WS
9/12 06/01 14/01 Days
9/12 06/01 14/01 Days 06/01 14/01 d a Geodetic Match Filter (Rousset et al., 2017). a synthetic event of 30 days of duration. ation pattern at the moment of the biggest correlation
9/12 06/01 14/01 Days of a Geodetic Match Filter (Rousset et al., 2017). In a synthetic event of 30 days of duration. Ation pattern at the moment of the biggest correlation yesian framework (red line, mean model) Mw = 5.1,
by 12 13 14/01
by 9/12 06/01 14/01 Days 0 d a Geodetic Match Filter (Rousset et al., 2017). a synthetic event of 30 days of duration. ation pattern at the moment of the biggest correlation yesian framework (red line, mean model) Mw = 5.1, around Ismetpasa. r data, good apriori estimation for detection and duration.
by 12 06/01 14/01 bismetpasa WN 15metpasa WN 15metpasa WS 0 0 0 0 0 0 0 0 0 0 0 0 0
by 5 Findings by Findings by 7 a symmetry around Ismetpasa with the GNSS
yesian framework (red line, mean model) Mw = 5.1, around Ismetpasa. r data, good apriori estimation for detection and duration. Y Findings ely 8 mm/yr around Ismetpasa with the GNSS to detect a transient signal with small magnitud 5.1 between December 2019 and
by 8 mm/yr around Ismetpasa with the GNSS to detect a transient signal with small magnitud 5.1 between December 2019 and etween 2019 Dec and 2020 Jan. Max. slip is
by 12 by 12 by 2 by 3 06/01 14/01 0 06/01 14/01 0 0 0 0 0 0 0 0 0 0 0 0 0
by 12 Days 06/01 14/01 14/01 0 14/01 0 14/01 0 0 0 0 0 14/01 0 0 0 0 0 0 0 0 0 0 0 0 0