Predicted RBSP footprints  
(AACGM magnetic longitude and latitude)

01–Jul–2013

Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

02–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at r > 3R₄. Also with: C1 C2 C3 C4 THA THD THE
(g) 2355UT to 2355UT
bks cve the gbr wai
Predicted RBSP footprints  
(AACGM magnetic longitude and latitude)

03–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B 
Bottom rows: Periods when both RBSP–A/B are at $r > 3R_E$. Also with: C1 C2 C3 C4 THA THD THE

(a) 0000UT to 0300UT
ade bks cve thr hgb kpr wal
dce hal san

(b) 0505UT to 0650UT
ade bks cly cve cvw thr hok ksr
dce sps
Predicted RBSP footprints (AACGM magnetic longitude and latitude)

04−Jul−2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at \( r > 3R_E \). Also with: C1 C2 C3 C4 THA THD THE

(a) 0000UT to 0055UT
(b) 0300UT to 0555UT
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

05−Jul−2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE

(a) 0200UT to 0400UT
dce sps

(b) 0605UT to 0850UT
dce sps tig unw
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

06−Jul−2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

07–Jul–2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE

(a) 0000UT to 0105UT
(b) 0315UT to 0545UT
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

08–Jul–2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE

(a) 0150UT to 0410UT
dce sps

(b) 0620UT to 0840UT
dce sps tig unw
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

09–Jul–2013

Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at \( r > 3R_E \). Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

10–Jul–2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE

(a) 0000UT to 0120UT
(b) 0325UT to 0535UT
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

11–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at r > 3\(R_E\). Also with: C1 C2 C3 C4 THA THD THE

(a) 0140UT to 0425UT
ade adw bks cly cve cvw fhw hok ksr pgr
dce sps

(b) 0630UT to 0830UT
ade adw bks cly cve cvw fhw hok ksr pgr
dce sps tig unw
(c) 1040UT to 1325UT
adw cly cvw hok ksr

(d) 1535UT to 1730UT
adw han

(e) 1935UT to 2225UT
cve fhe wal
Predicted RBSP footprints (AACGM magnetic longitude and latitude)

12–Jul–2013

Top row: 24h footprints: RBSP–A RBSP–B

Bottom rows: Periods when both RBSP–A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

13–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at \( r > 3R_E \). Also with: C1 C2 C3 C4 THA THD THE

(a) 0000UT to 0130UT
(b) 0340UT to 0525UT
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

14–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at $r > 3R_E$. Also with: C1 C2 C3 C4 THA THD THE

(a) 0130UT to 0435UT
ade bks cve cvw fhe fhw kap sto wal
dce sps

(b) 0645UT to 0820UT
ade adw bks cly cve cvw fhw hok ksr pgr
dce sps tig unw
Predicted RBSP footprints (AACGM magnetic longitude and latitude)

15−Jul−2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at $r > 3R_E$. Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

16−Jul−2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at \( r > 3R_E \). Also with: C1 C2 C3 C4 THA THD THE

![Map of predicted RBSP footprints](image)
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

17–Jul–2013

Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at r > 3Rₚ. Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

18–Jul–2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at r > 3Rₐ. Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

19–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at $r > 3R_E$. Also with: C1 C2 C3 C4 THA THD THE

(a) 0000UT to 0200UT
(b) 0405UT to 0505UT
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

20–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE

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(a) 0110UT to 0505UT
ade bks cve cvw fhe fhw kap sto
dce sps sys

(b) 0710UT to 0800UT
ade adw bks cve cvw fhw hok
dce sps unw
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

21–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at \( r > 3R_E \). Also with: C1 C2 C3 C4 THA THD THE

![Diagram showing predicted RBSP footprints](image-url)
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

22–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at $r > 3R_E$. Also with: C1 C2 C3 C4 THA THD THE
(c) 0700UT to 1115UT
ade adw cly cvw fhw hok kap ksr

d) 1320UT to 1350UT
adw hok

(e) 1600UT to 2015UT
inv pyk

(f) 2220UT to 2250UT
bks cve fhe kap
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

23–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

24–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE

(a) 0125UT to 0145UT
dce sps

(b) 0355UT to 0820UT
dce sps
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

25–Jul–2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

26–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

27–Jul–2013
Top row: 24h footprints: RBSP−A RBSP−B
Bottom rows: Periods when both RBSP−A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE
(c) 2140UT to 2355UT
Eaks cve the gbr sto wal

hal

GSE (RE)

X

GSE (RE)

Y

\[ -20 \]

\[ -10 \]

\[ 0 \]

\[ 10 \]

\[ 20 \]

\[ X_{\text{sun}} (R_{\text{U}}) \]

\[ Y_{\text{sun}} (R_{\text{U}}) \]
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

28–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at \( r > 3R_E \). Also with: C1 C2 C3 C4 THA THD THE

(a) 0000UT to 0240UT
(b) 0640UT to 1140UT
Predicted RBSP footprints
(AACGM magnetic longitude and latitude)

29–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at r > 3R_E. Also with: C1 C2 C3 C4 THA THD THE

(a) 0035UT to 0545UT
(b) 0935UT to 1445UT
Predicted RBSP footprints (AACGM magnetic longitude and latitude)

30–Jul–2013

Top row: 24h footprints: RBSP–A, RBSP–B
Bottom rows: Periods when both RBSP–A/B are at $r > 3R_E$. Also with: C1, C2, C3, C4, THA, THD, THE

(a) 0335UT to 0845UT
adw pyk ade bka cyl cvw fhw hok kod ksr pgr
dce sps

(b) 1230UT to 1750UT
adw pyk
Predicted RBSP footprints (AACGM magnetic longitude and latitude)

31–Jul–2013
Top row: 24h footprints: RBSP–A RBSP–B
Bottom rows: Periods when both RBSP–A/B are at \( r > 3R_E \). Also with: C1 C2 C3 C4 THA THD THE

(a) 0000UT to 0250UT
(b) 0630UT to 1150UT
(c) 1530UT to 2055UT
han inv rkn
ker

$X_{GSE} (R_E)$

$Y_{GSE} (R_E)$

$V_{x,y} (R_U)$

$X_{stat} (R_U)$